CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, May 4, 1905.

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CIVIL SERVICE EXAMINATIONS FOR TECHNICAL POSITIONS.

BACTERIOLOGICAL CHEMIST.—U. S. Civil Service Commission, Washington, D. C., will hold an examination May 17 to fill a vacancy in the position of bacteriological chemist in the Bureau of Chemistry, Department of Agriculture, at $2,000 per annum, and similar vacancies.

ARCHITECT.—Municipal Civil Service Commission, Henry Berlinger, Secy., 61 Elm St., New York, will hold an examination May 25 at 10 a. m., to fill a vacancy in the position of architect in the Department of Parks at $2,500 per year. Applications will be received until 12 o'clock noon, May 13.

TRACK FOREMEN, SECTION BOSSES.—The Chief Engineer, Isthmian Canal Commission, is looking for reliable track foremen and section bosses to be employed on the reconstruction of the Panama Railroad. The pay will be from $1,000 to $1,200, with opportunities of promotion; also traveling expenses to the Isthmus. Application should be made to Capt. E. L. King, Assistant to the Chief Engineer, Isthmian Canal Commission, Washington, D. C.

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close	Work.	Place.	On file.	See issue.
May				
*5	Water pipe	West Point, N. Y.	S	4-13
*5	Paving	Holyoke, Mass.	S	4-20
6	Quay wall	Bremerton, Wash.	S	3-23
6	Cableways	Washington, D. C.	S	4-13
*9	Road work	Atlantic City, N. J.	P. & S.	4-13
*9	Paving	Wellsville, N. Y.	S	4-20
11	Breakwater	Los Angeles, Cal.	S	4-25
*12	Filing equipmt.	Columbia, S. C.	P. & S.	4-27
*14	Water-works	Mansfield, La.	S	2- 2
18	Sewer system	Mt. Carmel, Pa.	S	4-27
*24	Bulkhead	Baltimore, Md.	P. & S.	5- 4
Sept.				
1	Steel manufacture	New S. Wales	S	3-23

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work. Place.	See issue.
May 5.	Electric plant sale, Port Arthur, Ont.	Apr. 13
May 5.	Lighting system, New York, N. Y.	May 4
May 8.	City lighting, Binghamton, N. Y.	Apr. 20
	Advertised, Eng. News, Apr. 20 and 27.	
May 8.	Gas pipe line, etc, Richmond, Va.	Apr. 27
	Advertised, Eng. News, Apr. 27.	
May 9.	Power plant work, Fulton, Mo.	Apr. 27
May 10.	Elec. plant franchise, Bristol, Tenn.	May 4
May 11.	Heating, power system, Cincinnati, O.	May 4
May 12.	Three power houses, Pittsburg, Pa.	Apr. 27
May 13.	Boiler, Marshall, Minn.	May 4
May 15.	Arc lighting, Edmonton, Alta.	May 4
May 15.	Power development, Pentwater, Mich.	May 4
May 15.	Electric plant, Jewell City, Kan.	Mar. 23
May 17.	Gas plant, Oxford, Pa.	May 4
May 18.	Electrical equipment, Oswego, N. Y.	May 4
	Advertised, Eng. News, May 4 and 11.	
May 18.	Power plant, Ashland, Va.	May 4
May 20.	Lighting plant, Washington, D. C.	May 4
	Advertised, Eng. News, May 4 to 18.	
May 31.	Heating, plant, etc., Washington, D. C.	May 4
	Advertised, Eng. News, May 4 to 25.	
June 8.	Gas supply, Newport, Ky.	Apr. 27

BRIDGES.

Bids close.	Work. Place.	See issue.
May 4.	Bridge, Jersey City, N. J.	Apr. 27
May 4.	Bridge, Wabash, Ind.	Apr. 13
May 4.	Bridges, iron, Birmingham, Ala.	Apr. 13
	Advertised, Eng. News, Apr. 13 and 20.	
May 4.	Bridges, Bryan, O.	Apr. 20
May 4.	Bridges, Columbus, O.	Apr. 20
May 5.	Bridge, superstructure, Cincinnati, O.	Apr. 13
May 5.	Bridge, steel, Duluth, Minn.	Apr. 27
May 5.	Bridge, Asbury Park, N. J.	May 4
May 8.	Bridges, steel, Stillwater, Okla.	May 4
May 8.	Bridges, steel, Olivet, S. Dak.	Apr. 27
May 10.	Bridges, steel, Pembina, N. Dak.	Apr. 27
May 10.	Bridges, stone, Cleveland, O.	Apr. 20
May 11.	Bridges, Hartford City, Ind.	May 4
May 15.	Bridge, Everett, Wash.	May 4
May 15.	Bridge, England	Apr. 27
May 16.	Bridge, steel, Georgetown, S. C.	May 4
May 17.	Abutments, Cleveland, O.	Apr. 27
May 17.	Bridge, Pittsburg, Pa.	Apr. 27
May 19.	Bridge, iron, Mt. Carroll, Ill.	Apr. 27
May 20.	Bridge, steel, Mitchell, S. Dak.	May 4
May 20.	Bridges, Rosepine, La.	May 4

BUILDINGS.

Bids close.	Work. Place.	See issue.
May 5.	School, Fairmount, O.	Apr. 20
May 6.	Asylum, Valparaiso, Ind.	Apr. 20
May 6.	Heating apparatus, Florence, S. C.	Apr. 13
May 6.	Tiles, brick, Washington, D. C.	Apr. 27
	Advertised, Eng. News, Apr. 27 and May 4.	
May 6.	Library, Franklin, N. H.	May 4
May 7.	Candy factory (Mfg. plants), Columbus, Ga.	May 4
May 8.	Court-house, Talladega, Ala.	May 4
May 8.	Jail, Lebanon, Va.	Apr. 27
May 8.	School, Cleveland, O.	Apr. 27
May 8.	Interior finish, New York, N. Y.	Mar. 16
May 8.	Laundry (Mfg. Pl), Albuquerque, N. Mex.	Apr. 20
May 9.	Mechanical equipment, New York, N. Y.	Mar. 16
May 9.	School, Winnipeg, Man.	May 4
May 9.	Hospital, Concord, N. H.	May 4
May 9.	Heating plant, Fulton, Mo.	May 4
May 10.	Oil house, Delaware City, Del.	May 4
May 10.	Court-house, Prattville, Ala.	May 4
May 10.	Building, Altoona, Pa.	May 4
May 10.	Buildings, Chamberlain, S. Dak.	May 4
May 10.	Elevator equipment, New York, N. Y.	Apr. 13
May 10.	Light fixtures, etc., Ft. Sheridan, Ill.	Apr. 27
	Advertised, Eng. News, Apr. 27 and May 4.	
May 11.	Post-office, Laramie, Wyo.	Apr. 13
May 11.	Smoke-stack, etc., Ft. Assiniboine, Mont.	Apr. 13
	Advertised, Eng. News, Apr. 13 to May 4.	
May 12.	Metal office equipment, Columbia, S. C.	Apr. 27
	Advertised, Eng. News, Apr. 27 and May 4.	
May 13.	Ornamental terra cotta, Washington, D. C.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.	
May 15.	Mess halls, etc., Ft. Sam Houston, Tex.	Apr. 20
May 15.	Bank Building, Drakes Branch, Va.	May 4
May 15.	Buildings, Portsmouth, N. H.	May 4
May 16.	Building, Lafayette, Ind.	May 4
May 17.	School, New York, N. Y.	May 4
May 17.	Building, Kings Park, N. Y.	May 4
	Advertised, Eng. News, May 4 and 11.	
May 17.	Structural steel, Washington, D. C.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.	
May 20.	Masonic Temple plans, Brooklyn, N. Y.	Mar. 30
May 20.	Prison addition, Trenton, N. J.	Apr. 27
May 20.	Light Fixtures, Ft. Hancock, N. J.	May 4

WATER SUPPLY AND IRRIGATION.

Bids close.	Work. Place.	See issue.
May 4.	Pumping plant, San Diego, Cal.	Apr. 27
May 4.	Water-works impts., De Pere, Wis.	Apr. 13
	Advertised, Eng. News, Apr. 13 and 20.	
May 5.	Pipe and castings, West Point, N. Y.	Apr. 13
	Advertised, Eng. News, Apr. 13 to May 11.	
May 6.	Tank and trestle, San Antonio, Tex.	Apr. 13
May 6.	Pipe and laying, Bradford, Pa.	May 4
May 8.	Pumps, Cohoes, N. Y.	May 4
May 10.	Pipe laying, Perth Amboy, N. J.	May 4
May 10.	Pipe, Dayton, O.	Apr. 27
May 10.	Improving reservoir, Boston, Mass.	Apr. 27
	Advertised, Eng. News, Apr. 27.	
May 10.	Water meters, Dayton, O.	Apr. 27
	Advertised, Eng. News, Apr. 27 and May 4.	
May 11.	Water main connection, New Orleans, La.	Mar. 23
May 11.	Water system, side track, Oswego, N. Y.	Apr. 13
	Advertised, Eng. News, Apr. 13 to May 11.	
May 11.	Laying pipe, West Point, N. Y.	Apr. 13
	Advertised, Eng. News, Apr. 13 to May 11.	
May 12.	Pipe laying, Cincinnati, O.	Apr. 20
May 12.	Dam, pipe line, etc., Oneida, N. Y.	May 4
	Advertised, Eng. News, May 4.	
May 14.	Water-works, Mansfield, La.	Mar. 2
	Advertised, Eng. News, Mar. 2.	
May 15.	Pumping engine, Montreal, Que.	Mar. 9
	Advertised, Eng. News, Mar. 9.	
May 15.	Gate and outworks, La Junta, Colo.	Apr. 27
	Advertised, Eng. News, Apr. 27 and May 4.	
May 15.	Stand pipe, etc., Montgomery, Ala.	May 4
	Advertised, Eng. News, May 4 and 11.	
May 16.	Pipe, castings, Cleveland, O.	May 4
	Advertised, Eng. News, May 4.	
May 16.	Irrigation canals, Denver, Colo.	Mar. 23
	Advertised, Eng. News, Mar. 23 to May 4.	
May 17.	Water-works, New Madrid, Mo.	May 4
	Advertised, Eng. News, May 4 and 11.	
May 17.	Water-works Lumberton, Miss.	May 4
	Advertised, Eng. News, May 4 and 11.	
May 1[illegible].	[illegible] motors, etc., Oswego, N. Y.	May 4
	Advertised, Eng. News, May 4 and 11.	
May 18.	Boiler, pump, etc., Ft. Assinniboine, Mont.	Apr. 27
	Advertised, Eng. News, Apr. 27 to May 18.	
May 20.	Water intake, etc., Oswego, N. Y.	Apr. 27
	Advertised, Eng. News, Apr. 27 to May 18.	
June 1.	Irrigation canals, etc., Glendive, Mont.	Apr. 6
	Advertised, Eng. News, Apr. 6 to May 18.	
June 15.	Irrigation canals, Boise, Idaho	Apr. 27
	Advertised, Eng. News, Apr. 27 to June 8.	

SEWERAGE.

Bids close.	Work. Place.	See issue.
May 4.	Sewers, Akron, O.	Apr. 27
May 4.	Sewer, McKeesport, Pa.	Apr. 27
May 4.	Sewerage, Saltsburg, Pa.	Apr. 13
May 5.	Sewers, Spartanburg, S. C.	Apr. 27
May 6.	Sewer pipe, Ft. Wayne, Ind.	Apr. 27
[illegible]	[illegible]ticello, Ind.	May 4
[illegible]	Water sewer, East Longmeadow, Mass.	May 4
[illegible]	[illegible] Newcastle, Pa.	May 4
May 8.	Drain, Berea, O.	Apr. 27
May 9.	Sewer, Fremont, O.	Apr. 27
May 9.	Sewer, Tipton, Ind.	Apr. 27
May 9.	Sewer, Youngstown, O.	May 4
May 9.	Sewer pipe, etc., Wilmington, Del.	May 4
[illegible]	Sewer, Findlay, O.	May 4
May 1[illegible].	[illegible] N. Y.	May 4
	Advertised, Eng. News, May 4 and 11.	
May 12.	Sewer system, Idaho, Falls, Idaho	Apr. 20
May 14.	Septic tanks, Birmingham, Ala.	Apr. 27
May 15.	Sewers, Kenosha, Wis.	May 4
May 15.	Sewers, etc., Freeport, Pa.	May 4
	Advertised, Eng. News, May 4 and 11.	
May 16.	Sewers, Green Bay, Wis.	May 4
May 17.	Sewer, Amsterdam, N. Y.	May 4
May 17.	Sewers, Washington, D. C.	Apr. 27
	Advertised, Eng. News, Apr. 27 and May 4.	
May 18.	Sewer system, Mt. Carmel, Pa.	May 4
	Advertised, Eng. News, May 4 and 11.	
May 19.	Sewer system, Puyallup, Wash.	May 4
May 25.	Sewers, North Platte, Neb.	May 4
	Advertised, Eng. News, May 4 to 25.	

STREETS AND ROADS.

Bids close.	Work. Place.	See issue.
May 4.	Macadamizing, Cincinnati, O.	Apr. 13
May 4.	Paving, brick, Akron, O.	Apr. 20
May 4.	Paving, St. Charles, Mo.	Apr. 20
May 5.	Sidewalks, etc., Holyoke, Mass.	Apr. 20
	Advertised, Eng. News, Apr. 20 and 27.	
May 5.	Paving, Chicago, Ill.	Apr. 27
May 6.	Paving, Cleveland, O.	Apr. 20
May 6.	Road, Washington, Pa.	Apr. 13
May 8.	Sidewalk, Jefferson, O.	Apr. 27
May 8.	Roads, Delaware, O.	Apr. 27
May 8.	Grading, Montesano, Wash.	Apr. 27
May 8.	Grading, etc., Green Castle, Ind.	Apr. 27
May 8.	Road, Everett, Wash.	May 4
May 8.	Paving, Edgewood, Pa.	May 4
May 8.	Grading, Newcastle, Pa.	May 4
May 8.	Broken stone, Newark, N. J.	May 4
May 9.	Paving, vitrified brick, Findlay, O.	May 4
May 9.	Grading, etc., Waterbury, Conn.	May 4
May 9.	Paving, etc., St. Louis, Mo.	May 4
May 9.	Gravel roads, Brazil, Ind.	Apr. 27
May 9.	Roads, Delaware, O.	Apr. 27
May 9.	Graveling, Atlantic City, N. J.	Apr. 13
	Advertised, Eng. News, Apr. 13 to May 4.	
May 9.	Gravel roads, Peru, Ind.	Apr. 20
May 9.	Paving, Wellsville, N. Y.	Apr. 20
	Advertised, Eng. News, Apr. 20 and 27.	
May 10.	Granolithic walks, Ft. Greble, R. I.	Apr. 20
May 10.	Paving, Cincinnati, O.	Apr. 20
May 10.	Paving, Pine Bluff, Ark.	Apr. 27
May 10.	Road, Freehold, N. J.	Apr. 27
	Advertised, Eng. News, Apr. 27 and May 4.	
May 10.	Roads, Delaware, O.	Apr. 27
May 10.	Paving, Elmira, N. Y.	May 4
May 10.	Paving, asphalt, New York, N. Y.	May 4
May 10.	Lewiston, Idaho	May 4
May 11.	Paving, asphalt, New York, N. Y.	May 4
May 11.	Road, Towson, Md.	May 4
May 11.	Paving, York, Pa.	May 4
May 12.	Paving, sheet asphalt, Wash., D. C.	Apr. 27
	Advertised, Eng. News, Apr. 27 and May 4.	
May 12.	Paving, asphalt block, Wash., D. C.	Apr. 27
	Advertised, Eng. News, Apr. 27 and May 4.	
May 13.	Concrete walks, Seattle, Wash.	May 4
May 13.	Grading, Rutland, Ia.	May 4
May 13.	Grading, Washington, D. C.	Apr. 27
	Advertised, Eng. News, Apr. 27 and May 4.	
May 13.	Road, Cleveland, O.	Apr. 27
May 13.	Macadamizing, Norwood, O.	Apr. 20
May 15.	Roads, Henderson, N. C.	Apr. 27
	Advertised, Eng. News, Apr. 27 and May 4.	
May 16.	Grading, etc., Normal City, Ind.	Apr. 27
May 16.	Paving, Trenton, N. J.	May 4
May 18.	Sidewalks, National Home, Wis.	Apr. 27
May 19.	Road repair, Richmond, Va.	May 4
May 20.	Grading, Washington, D. C.	May 4
	Advertised, Eng. News, May 4 and 11.	
May 20.	Concrete walks, Ft. Mackenzie, Wyo.	Apr. 27

MISCELLANEOUS CONTRACTS.

Bids close.	Work. Place.	See issue.
May 4.	Fire alarm system, Rensselaer, N. Y.	Apr. 27
May 4.	Garbage collection, Philadelphia, Pa.	Apr. 13
May 5.	Pile drivers, scows, etc., New York, N. Y.	Apr. 27
May 5.	Pier, New York, N. Y.	Apr. 27
May 6.	Cableways, Washington, D. C.	Apr. 13
May 6.	Breakwater work, Cleveland, O.	Apr. 6
	Advertised, Eng. News, Apr. 6 to May 4.	
May 8.	Dredging, Newport, R. I.	Apr. 13
	Advertised, Eng. News, Apr. 13 to May 11.	
May 8.	Garbage plant, Sacramento, Cal.	May 4
May 9.	Dock construction, Chicago, Ill.	May 4
May 9.	Railway equipment, Belt Ry.	May 4
May 9.	Conduit, trucks, motors, etc, Wash., D. C.	Apr. 13
May 9.	Cement piles, etc., Washington, D. C.	Apr. 20
May 9.	Sheet steel, iron pipe, etc., Wash., D. C.	Apr. 27
May 10.	Dredging, Newport, R. I.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.	
May 10.	Cable, Washington, D. C.	Apr. 20
May 10.	Earth spreaders, etc., Washington, D. C.	Apr. 13
	Advertised, Eng. News, Apr. 13 to May 11.	
May 10.	Road roller, Ottawa, Ont.	May 4
May 10.	Conduit work, New York, N. Y.	May 4
May 11.	Boat stone, etc., New York, N. Y.	May 4
May 11.	Switchboards, Washington, D. C.	Apr. 20
May 11.	Paints, oils, etc., Washington, D. C.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.	
May 11.	Breakwater, Los Angeles, Cal.	Apr. 20
May 11.	Drain, Auburn, Ind.	Apr. 27
May 12.	Ranges, stoves, etc., Washington, D. C.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 18.	
May 12.	Tinsmiths' supplies, etc., Wash., D. C.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 18.	
May 12.	Hose, rope, etc., Washington, D. C.	Apr. 20
May 12.	Rock removal, New York, N. Y.	Apr. 13
	Advertised, Eng. News, Apr. 13 to May 11.	
May 12.	Ry. grading, masonry, C. C. C. & St. L.	May 4
May 13.	Brooms, etc., Washington, D. C.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 18.	
May 13.	Riprap, Duluth, Minn.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 18.	
May 13.	Machinery, etc., Washington, D. C.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 18.	
May 13.	Pier work, Buffalo, N. Y.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 18.	
May 15.	Rock excavation, Chicago, Ill.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 4.	
May 15.	Excavation, Buffalo, N. Y.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 18.	
May 15.	Paints and oils, etc., Wash., D. C.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 18.	
May 15.	Dredging, Newport, R. I.	Apr. 13
	Advertised, Eng. News, Apr. 13 to May 11.	
May 15.	Iron, steel, etc., Watervliet, N. Y.	Apr. 27
May 15.	Dredging, Ottawa, Ont.	May 4
May 16.	Cement, stone, carts, etc., Wash., D. C.	May 4
May 16.	Retaining wall, Trenton, N. J.	May 4
May 16.	Locomotive cranes, Washington, D. C.	Apr. 27
May 16.	Tunnel, Boston, Mass.	Apr. 27
	Advertised, Eng. News, Apr. 27 to May 18.	
May 16.	Machinery, Washington, D. C.	Apr. 13
May 16.	Cement, Wheeling, W. Va.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 18.	
May 16.	Dredging, pier work, Milwaukee, Wis.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 18.	
May 16.	Lumber, piles, etc., Washington, D. C.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 18.	
May 17.	Miscellaneous supplies, Wash., D. C.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 18.	
May 18.	Brick clay, doors, etc., Wash., D. C.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 18.	
May 18.	Explosives, Washington, D. C.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 18.	
May 18.	Sanitary fixtures, etc., Washington, D. C.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 18.	
May 19.	Lumber, Washington, D. C.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 25.	
May 19.	Pier work, Cleveland, O.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 18.	
May 19.	Jetty work, Savannah, Ga.	Apr. 20
May 19.	Lock gates, Pittsburg, Pa.	Apr. 27
May 18.	Wharf work, San Francisco, Cal.	May 4
May 20.	Dam top, Pittsburg, Pa.	Apr. 27
May 20.	Dam construction, Rock Island, Ill.	Apr. 27
	Advertised, Eng. News, Apr. 27 to May 25.	
May 20.	Breakwater, Buffalo, N. Y.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 25.	
May 20.	Dredging, New London, Conn.	May 4
	Advertised, Eng. News, May 4 to 25.	

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ALEXANDRIA, BAYOU MACON & GREENVILLE.—J. D. Garrison, Ch. Engr., informs us that Wards 1, 3, 4 and 5 of Franklin Parish, La., on April 25, voted a 5-mill tax for ten years on property in aid of this railway. Similar tax was voted in West Carroll Parish on March 30, as fully noted on April 20.

AMADOR MINING CO.—A contract was let to ROSS & CO., of Chicago, Ill., to build the Amador railway from the new town of Amador, Mont., near Iron Mountain, on the Northern Pacific Ry., up Cedar Creek to the ore properties of this company, nine miles distant. Several contracts which were previously let and on which work was under way have been taken over by Ross & Co.

ATCHISON, TOPEKA & SANTA FE.—Company has awarded contracts as follows: To reduce grade, 65 miles, from Florence to Winfield, to ROOT BROS., of Tulsa, Ind. T.; to reduce grade from Arkansas City to Newkirk, Okla., 12 miles, to DOLMAN & SON, of Topeka, Kan.; to straighten line, reduce grade and build second-track between Melvern and Olivet, to the LANTRY-SHARP CONTRACTING CO., of Kansas City, Mo.; grading three miles of second-track between Hillside and Lynn, N. Mex., to THOMAS CORRIGAN, of Pueblo, Colo.; dike on Canadian River, to A. M. MORSE, of Newton, Kan.; for 14 miles of second-track between Morley and Jameson, N. Mex., to LANTRY-SHARP CO.

ATCHISON BELT LINE.—Incorporated in Kansas to build a belt line at Atchison to develop the coal fields adjacent to that city. Capital stock, $10,000. Incorporators: H. E. Farrell, of the St. Louis Southwestern Ry.; F. M. Pritchard, of Memphis, Tenn.; William Carlisle, T. M. Walker, B. P. Waggener, J. C. Fox, J. W. Allen and W. B. Corlett, of Atchison.

ATLANTIC & BIRMINGHAM.—C. D. SMITH & CO., of Memphis, Tenn., have contract for grading portion of A. & B. extension to Birmingham. J. D. LEWIS has been awarded contract for similar work .

BELT RY. (New Orleans, La.)—Bids are asked until May 9, instead of May 23, as first announced, by Public Belt Ry. Commission for furnishing a quantity of railway equipment. All material to be delivered f. o. b. cars New Orleans, La., if shipped by rail, or on wharf at point to be designated between Montague St. and Jackson Ave. if by boat. James W. Porch, Pres. pro tem, Room 30, City Hall; Frank H. Joubert, Secy.
City Hall; Frank H. Joubert, Secy. Work is divided into eight contracts, as follows: Contract "A"—196 tons 60-lb. rail; ten tons 151-lb. angle bars; 2,400 lbs. track bolts; 950 pieces rail braces; 13,600 lbs. spikes; 2,300 pieces tie plates; five switch points; five switch stands; five frogs, No. 9. Contract "B"—5,400 pieces 7 × 9 ins. × 8 ft. pine or cypress ties; 17,500 ft. B. M. pine switch timber; 30,000 ft. B. M. pine planking. Contract "C"—59 tons 60-lb rail; three tons 15-lb. angle bars; 800 lbs. track bolts; 300 pieces rail braces; 3,800 lbs. spikes; 1,000 pieces tie plates. Contract "D"—1,650 pieces 7 × 9-in. × 8-ft. pine or cypress ties; 10,000 ft. B. M. pine planking. Contract "E"—139 tons 60-lb. rail; seven tons 15-lb angle bars; 1,800 lbs. track bolts; 600 pieces rail braces; 10,400 lbs. spikes; 1,800 pieces tie plates. Contract "F"—3,900 pieces 7 × 9-in. × 8-ft. pine or cypress ties; 25,000 ft. B. M. pine planking. Contract "G"—110 tons 60-lb rail; 5.7 tons 16-lb. angle bars; 1,600 lbs. track bolts; 500 pieces rail braces; 8,300 lbs. spikes; 1,000 pieces tie plates. Contract "H."—3,100 pieces 7 × 9-in. × 8-ft. pine or cypress ties; 20,000 ft. B. M. pine planking.

BETHEL GRANITE RY.—A report from Burlington, Vt., announces that the Bethel Granite Railroad will be begun immediately. This road will run from Bethel to the granite quarries and will connect with the Central Vermont Railway.

BRAZIL GRAIN & SHIPPING CO.—A. B. Fox, Pres., Brazil, N. Dak., informs us that contracts have not been let for building 93-mile railroad from Underwood to Rugby via Balfour. Right-of-way for 30 miles surveyed. Previously noted.

BURNSIDE & CUMBERLAND RIVER.—A contract is said to have been let for extending this line for 25 miles, to Monticello, Ky. H. W. Evans, Burnside, Ky., is Supt.

BUTTE COUNTY.—J. B. Robinson, Ch. Engr., Chico, Cal., writes us that extension from Sterling City, for distance of about 24 miles, will be built by company's forces. No contracts are to be let.

CALIFORNIA.—H. B. Kinney, Port Richmond, Cal., writes us that company which he represents has been awarded a county franchise to build a railway in Stanilaus County. City of Modesto has been petitioned for a like franchise. Nothing will be done regarding construction until this franchise is secured. The line probably will run from Riverbank to Bald Eagle ranch and thence to Modesto. A preliminary survey is said to have been made. Estimated cost of project is $350,000.

CALIFORNIA.—J. D. Negus, of Salt Lake City, Utah, is backing project, according to San Francisco "Examiner," to build a railway, 1,706 miles long, from San Francisco to the Missouri. A company has been incorporated in Nebraska, under the name of the Nebraska & Western Ry.; in Wyoming, as the Laramie & Sweetwater Valley Co., and in Utah, as the Wyoming & Western Co. Mr. Negus states that the road "can be built and equipped between Sioux City, Ia., and San Francisco, for an average of $20,000 a mile."

CAPE BRETON RY. CO., LTD. (Canadian Northern).—The Nova Scotia Legislature has granted a subsidy of $5,000 a mile to this company to complete a line from St. Peters to Louisburg, N. S., 35 miles. The company has also been authorized to build and operate a line from Grand Mere to Quebec, and to connect with the Quebec Bridge. G. E. Johnson, St. Peters, N. S., is Gen. Mgr.; H. M. Wolfe is Vice-Pres., 22 Pine St., New York.

CENTRAL OHIO & NORTHWESTERN.—Fred. W. Jones, Pres., Mt. Vernon, O., advises us that survey has been run for about 44 miles of proposed 100-mile line, from Marion to Zanesville, O., via Cardington, Fulton, Green Valley, Mt. Vernon, Gambier, Bladensburg, Perryton and Frazeysburg. Some right-of-way is secured. Capital has not been obtained. Contracts for construction will not be let until bonds are sold. Mr. Jones wishes to interest capitalists to build this road during 1905.

CENTRAL OF GEORGIA.—This company probably will build an extension from Greenville to Newnan, Ga., 18 miles. An application has been made for a charter for the Greenville & Newnan Railway to cover this work. H. M. Steele, Ch. Engr., Savannah, Ga.

CHESAPEAKE & OHIO.—Contract is reported to have been awarded to S. T. SMITH, of Richmond, Va., to double-track this road from Dayton, Ky., to Silver Grove, ten miles. Estimated cost, about $500,000.

CHICAGO, MILWAUKEE & ST. PAUL.—A contract has been given to PETER SHUGART, of Des Moines, Ia., for grading 50 miles of this road west from Armour, S. Dak.

CHICAGO & EASTERN ILLINOIS.—It is stated that an appropriation of $1,500,000 has been made for general improvements and betterments. These will include 30 miles of third-track, increased yard facilities at Chicago and other points, passing sidings, signal and interlocking equipment to protect sidings, new telegraph and telephone lines, and several water softening plants. J. F. Hinckley, St. Louis, Mo., is Ch. Engr.; W. S. Dawley, Chicago, is Engr. M. W.

CHICAGO, BURLINGTON & QUINCY.—The contract for building Big Horn Basin extension has been given to J. JOLLY, of Salt Lake City, Utah. It will extend from Laramie, Wyo., to the Shoshone Indian reservation.

CHICAGO & NORTHWESTERN.—JOHN MARSCH, of Iron Mountain, Mich., has been awarded contract for grading between Manitowoc and Green Bay, Wis. Contractor Marsch has opened offices at Green Bay, Wis.

CHICAGO & NORTHWESTERN.—Citizens of Des Moines, Ia., are interested in project to have tracks of the Chicago & Northwestern Ry. in East Des Moines, from Des Moines St. to Court Ave., elevated. Cost will be about $250,000. B. Schreiner has been employed to estimate on plans.

A cut-off, running from Cudahy, Wis., to northern limit of city of Chicago, 65 miles in length, may be built this summer. E. C. Carter, Chicago, is Ch. Engr.

CHICAGO, ROCK ISLAND & PACIFIC.—Company has awarded a contract to J. S. WOODS, of Springfield, Mo., to build a branch freight line from Coalgate, Ind. T., to Lehigh, five miles.

It is reported that a bonus of $20,000 has been voted by the town of Granite, Okla., and right-of-way granted for ten miles, to secure the extension of this road from Chattanooga westward through Snyder and Granite to Eric, 90 miles.

CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS.—We are informed that bids are asked by W. M. Duane, Supt. Construction, Mattoon, Ill., until noon, May 12, for grade reduction and incidental masonry construction on Cairo division, between Allenville and Harrisburg. Approximate quantities will be: 1,625,000 cu. yds. common excavation; 344 tons c.-i. culvert pipe, in place at South Cawling, Ill.; 17,000 cu. yds. masonry, and other work. Also at same date for grading and masonry at St. Francisville, Ill., on Cairo division. About 200,000 cu. yds. common excavation; 10,000 cu. yds. masonry. Also for grade reduction and incidental masonry construction between Westville and Allendale, Ill., on Cairo division. About 1,400,000 cu. yds. common excavation; 410 tons c.-i. culvert pipe, in place, Paris to Grover; total of 16,000 cu. yds. masonry.

COAST LINE RAILWAY.—This company has been incorporated in California in the interest of the Southern Pacific Ry., it is said, to build a railroad from San Francisco, south along the coast via Pescadero, to Santa Cruz, 80 miles; with a branch from Pescadero to Boulder Creek, 20 miles. Capital stock, $3,000,000. Directors: William F. Herrin, William Hood, Peter F. Dunne N. T. Smith and J. L. Willcutt, all of San Francisco.

CONNECTICUT.—Board of Railroad Commissioners has issued an order authorizing improvements in Waterbury which will cost about $1,500,000. This includes a union station, elimination of certain grade crossings, adding to number of main tracks, and other work by the New York, New Haven & Hartford Ry. Co. Edward Gagel, Principal Asst. Engr., New Haven, Conn.

DANVILLE & INDIANA HARBOR.—The contract for building about 50 miles of track has been given to WINSTON BROS., of Minneapolis, Minn. Noted in full on April 20.

DELAWARE, LACKAWANNA & WESTERN.—Company will erect a new 29-stall round-house at Kingston, N. Y., this year.

Contract has been awarded to BURKE BROS., of Scranton, Pa., for widening the Nay Aug tunnel. At one point 80,000 cu. yds. of solid rock are to be removed. Cost, about $400,000.

DENVER, WICHITA & GULF.—We are informed that grading is in progress. Seven miles of line are built. About 70 miles will be completed this season. This company was incorporated in Oklahoma last fall to build a line 1,800 miles long from Denver, Colo., through Kansas, Oklahoma, Indian Territory and Arkansas into Tennessee at an estimated cost of $54,000,000. Among the incorporators were S. P. Brundage, of St. Louis, Mo. and F. W. Casner and M. Harrington, of Kansas City, Mo.; F. E. Sutton and A. M. Coffman, of Oklahoma City, Okla.; Wm. B. Williams, of Carmen, Okla., and E. G. Wilson and J. M. Grouth, of Catoosa, Ind. T. It is also proposed to build a tramway ten miles long east from Catoosa, Ind. T.

GRAND TRUNK PACIFIC.—At recent stockholders' meeting held in London, England, it was announced that the construction of the Lake Superior branch of the Grand Trunk Pacific will begin in June and the construction of the Prairie branch in July.

GRASSY CREEK.—This railway company has been incorporated in West Virginia to build a line from the Summit, between Elk and Holly Rivers, to Pickens, W. Va., about 18 miles. The incorporators are: R. M. Smith of Heaters, W. Va.; J. H. P. Smith of Parkersburg, W. Va.; J. L. Fisher, Chas. J. Hyer and Fred L. Fox, all of Sutton, W. Va.

GREAT NORTHERN.—The contract for building the extension from Sioux City, Ia., to Ashland, Neb., 110 miles, is said to have been awarded to SIEMS & SHIELDS, of St. Paul, Minn.

GEORGIAN BAY & SEABOARD.—Charter has been applied for to build a line from a point on the Georgian Bay between Port Severn and Penetang, southeasterly through the counties of Simcoe, Ontario, Victoria, Peterboro, Hastings, Lennox, Addington, Frontenac, and Lanark, to a point on the Canadian Pacific Ry. The same company asks for power to build a line from London to Sarnia. W. D. Matthews and H. C. Hammond, named as applicants for charter, are Canadian Pacific Ry. directors.

GULF, COLORADO & SANTA FE.—A 50-mile extension may be built from Garwood to Midfields, Tex., via El Campo, if consolidation plan of the Gulf, Colorado & Santa Fe and Cane Belt Rys. is approved by Texas legislature. C. F. W. Felt, Galveston, Tex., is Ch. Engr.

JAMES BAY.—The Railway Committee of the Canadian House of Commons has reported the bill authorizing this company to build extensions from Toronto to Ottawa and thence to Montreal. The line of the proposed road crosses the Ottawa River at Hawkesbury, and thence runs down the north shore to the Island of Montreal where it is proposed to build two branches into the city. The bill also provides for extensions from French River to Ottawa and from Sudbury to Port Arthur to connect with the Canadian Northern Ry.

KALAMAZOO, LAKE SHORE & CHICAGO.—The KNOX CONSTRUCTION CO., of Chicago, has been awarded contract for building this railway. The road begins near Paw Paw, Mich., and runs through Covert, Bangor and Lawrence to Kalamazoo.

LANCASTER, OXFORD & SOUTHERN.—Contract for building an 8-mile branch line from Fairmont to Quarryville, Pa., has been awarded to P. McMANUS & CO., of Philadelphia.

LOUISVILLE & NASHVILLE.—MOSS & CALLISON have received a contract to put in a siding at Appalachia, Va.

MANUFACTURERS' BELT LINE.—This company has been chartered at Tulsa, Ind. T., with a capital of $500,000. The incorporators are: M. B. Baird, M. C. Hale and H. C. Stebbins, of Tulsa, and Maj. Moberly and Howard Elder, of Oklahoma City. The company proposes to construct a line of railroad from a point on the Midland Valley in the Cherokee Nation to Tulsa, and thence a distance not exceeding six miles to the coal banks near Dawson, Ind. T.

MASON CITY & FORT DODGE (Chicago Great Western).—The recent issue of $12,000,000 of bonds by the Chicago Great Western will be used for building the Mason City & Fort Dodge from a point southwest of Des Moines, Ia., on the Kansas City, St. Joseph & Council Bluffs, northwest to Carroll, on the Omaha line near Fort Dodge, and continuing northwest to Sioux City.

MOBILE & OHIO.—R. V. Taylor, Gen. Mgr., St. Louis, Mo., states that the report that this company contemplates the construction of a branch from Shuqulak to Edinburg, Miss., is unauthentic and without foundation.

NEW YORK, NEW HAVEN & HARTFORD.—Company has awarded to J. V. DALY & CO., of Mount Kisco, N. Y., and C. W. BLAKESLEE & SONS, of New Haven, the contract for double-tracking a 25-mile section of the Poughkeepsie Bridge route between Danbury, Conn., and Towners, N. Y. The contract is said to approximate $500,000

NORTHERN PACIFIC.—President Howard Elliott has authorized the installation of block signal system over the following districts: Livingston to Logan, Mont., 50 miles; Garrison, Mont., to Dixon, Mont., 118 miles Spokane, Wash., to Pasco., Wash.. 145 miles; Pasco, Wash., to Ellensburg, Wash., 126 miles; Seattle to Tacoma, Wash., 42 miles.

PENNSYLVANIA RY.—Engineers are said to have located a route for a belt line around Baltimore, Md.

Elimination of grade crossings and building six miles of second-track on the Indianapolis division will be begun soon, it is said. A second-track is to be laid between Florence and Wilberforce, O., at a cost of $330,000.

PENNSYLVANIA RY.—Company has awarded contracts for new work. On the main line between Beatty station and Donahoe two additional tracks will be constructed. Some grades and curves will be eliminated. Two new tracks will be laid between Georges cut to Southwest junction, and from Greensburg to Beatty. The contracts were given to the DRAKE & STRATTON CO., South Broad St., Philadelphia, for about $100,000. On the Buffalo and Allegheny Valley division additional tracks will be constructed at Redbank. The contract for this work has been awarded to C. A. SIMS & CO., of Philadelphia.

PUGET SOUND EASTERN.—Dan. W. Bush, Chehalis, Wash., an incorporator, informs us that right-of-way for eight miles is secured. This company is successor to the Chehalis Eastern Ry. Co. The route, as planned, will be 150 miles long, from Chehalis to North Yakima, Wash., and from Chehalis to Olympia, Wash. Capital is secured for preliminary work; $1,000,000 of 10-year, 6% bonds will be issued through Washington Trust Co., of Seattle. H. W. Holmes, of Seattle, is Pres.

QUEEN & CRESCENT.—[illegible]SEY, of Birmingham, Ala., has contr[illegible] grading and excavation work for yard[illegible]ngs, etc., at Somerset, Ky.

RIA GRANDE, SIERRA [illegible]RE & PACIFIC.—Contract has been [illegible] to J. H. FLICK & CO., of Davenport, [illegible] for building a 190-mile extension from [illegible]nde, Ariz., to Dedrick, Cal. E. W. M[illegible] Paso, Tex., is Gen. Mgr. of Railway.

SOUTHERN RY.—It [illegible] that KISER & CO., of Terre Ha[illegible] has contract for constructing first [illegible] of the Indianapolis division of th[illegible]

W. B. Crenshaw, Resident [illegible] at Knoxville, Tenn., confirms the [illegible] that a survey will be made for dou[illegible] between Morristown and Knoxville, [illegible] about 40 miles.

ST. LOUIS, FREEBURG [illegible] FAYETTEVILLE.—Company has in[illegible] in Illinois to build a railroad fro[illegible]ville to Fayetteville. Capital stock, [illegible] E. A. E. Ambs, O'Fallon, Ill.; Ge[illegible]ler and A. Vogler, St. Louis, Mo.; [illegible] A. Wolf and Peter Yaeger, Freeburg, [illegible] reported as incorporators.

ST. LOUIS, IRON MOUNTA[illegible] & SOUTHERN (Missouri Pacific).—The [illegible] Board of Railway Incorporation has [illegible] permission to this road to build a bra[illegible] from Eudora, Ark., south through Carr[illegible] Franklin, La., to Gilbert, a distance [illegible] 76 miles. The cost of the proposed line [illegible] be about $1,140,000. W. T. Tyler, Little Rock, Ark., is Gen. Supt.

ST. LOUIS & NORTH ARKANSAS.—S. W. Lee, Ch. Engr., Eureka Springs, Ark., states that location survey is being made for a proposed extension from Seligman to Joplin, Mo., 60 miles.

TENNESSEE.—The Schlosser Leather Co., which, with the Pioneer Lumber Co., has built 12 miles of line from Huntsville, Tenn., to Pioneer (the Straight Fork Railroad), is said to have engineers surveying from Walland to Newport, Tenn., 20 miles for a new line. Contract may be let soon. The Vestal Lumber Co., of Knoxville, is said to be interested in the proposed line, which will connect with the Tennessee-North Carolina Railroad. C. S. Hoover, of Pioneer, is Supt. of Straight Fork line.

TRINITY & BEAUMONT.—The Carlisle Pennell Lumber Co., of Atchison, Kan., are preparing to build a railroad from Trinity to Beaumont, Tex., 21 miles. Surveys are to be made at once. Contracts for a portion of the construction material are said to have been let. L. O. Jackson, Onalaska, Ark., and Beaumont, Tex., will have charge of construction.

WATERTOWN & WEBSTER.—South Dakota farmers are interested in project to build a short railway under this name. A. C. Burnstad, N. A. Slogstad, Joseph Hall, H. M. Finerud and J. W. Martin, of Dexter, S. Dak., are named as directors.

WHITE RIVER VALLEY.—A contract has been awarded to McINTOSH BROS., of Milwaukee, Wis., for the construction of the new line from Chamberlain, S. Dak., to a point in the center of Lyman County in the same state, 75 miles. At a later date it is proposed to extend to Deadwood in the Black Hills, a distance of 300 miles. The road is to be in operation by Nov. 1. McINTOSH BROS. have contract for improvement work on the Council Bluffs division of this road. McDOUGALL & YALE are sub-contractors for McIntosh Bros.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

LEWISTON, ME.—The Lewiston & Portland Ry. Co. has been incorporated, with $150,000 capital, by Winfield S. Libbey, Henry H. Dingley, Julius B. Parkhurst, J. Frank Boothby, all of Lewiston; and John A. Morrill, of Auburn. The railway will start at Auburn and extend through New Gloucester, Gray, Cumberland and Falmouth, to Portland, about 30 miles. Surveys will be made this summer. Winfield Libbey and Henry Dingley, mentioned above, are owners of the Deer Rips dam, above Lewiston, which was recently built at cost of $500,000. Power generated at this dam probably will be used to operate the railway.

PLYMOUTH, MASS.—The Plymouth County Street Ry. Co. has been granted a charter by the secretary of state to operate a road from Rockland through Hanover, Pepperell, Duxbury and Marshfield to Kingston, about 27 miles. Capital is $125,000.

WORCESTER, MASS.—EDWARD F. SMITH, of Worcester, has been awarded contract for excavating and grading construction for the Providence & Woonsocket Street Ry. Co.

We are informed that surveys are made for proposed line from Worcester to Leominster, via West Boyleston and Sterling, 2[illegible] miles. Capital is secured. Bids have been submitted for construction but have not yet been passed upon. Luther Dean, Taunton, is Ch. Engr. J. W. Lester is Clerk and Treas., at Worcester.

BRIDGEPORT, CONN.—The Connecticut Railway & Lighting Co. will petition legislature for permission to extend the State St. line southerly on Hancock Ave. to its termination this summer. Company also has under consideration plan to extend Main St. line in New Britain, Conn. J. F. Sewell, Bridgeport, is Gen. Mgr.

HARTFORD, CONN.—The charter of the Stafford Springs Street Ry. Co. has been extended for period of two years by Connecticut legislature. Charter authorizes the construction of a main line from the terminus of the Hartford, Manchester & Rockville Co.'s tracks in Rockville to the Massachusetts state boundary in the town of Stafford, and also the building of numerous side lines. The authorized capital stock is $700,000. The project is being promoted by James F. Shaw Co., of Boston. It is estimated that it will cost $3,000,000 to build the railway, which will be 18 miles long. Work will be started, probably, this month. James F. Shaw, 8 Congress St., Boston, is Gen. Mgr.

DANBURY, CONN.—Definite steps have been taken, it is said, toward resumption of work on the partially built trolley line which the Danbury & Harlem Traction Co. is to construct between Danbury and Golden's Bridge, N. Y. Engineers are at work on plans for the completion of the road. It is stated that reconstruction will begin soon. When work was suspended, three years ago, much of the roadbed had been graded and portion of rails laid. C. D. Maleady, Ossining, N. Y., is Gen. Mgr. and Supt.

WILLIMANTIC, CONN.—State Railroad Commission has favorably considered application of Willimantic Traction Co. for a charter to build from Coventry to Manchester. W. D. Grant is Supt., at Willimantic.

HOMER, N. Y.—THE BUFFALO POLE LINE CONSTRUCTION CO. 651 Ellicott Sq., Buffalo, has been awarded the contract, we are informed, to build an extension of the system of the Cortland County Traction Co. from Homer to Little York Lake, N. Y., where the Traction Co. will build an extensive summer resort. Work was started on April 27. J. A. Maxwell, Cortland, N. Y., is Ch. Engr. Traction Co.

BROOKLYN, N. Y.—The Brooklyn Rapid Transit Co.'s engineers have prepared plans for many extensions and improvements to its system. The extension of the line through Nostrand Ave. to Ave. U will be begun soon, also line through Utica Ave. from terminal at Church Ave. to connect with the Flatbush Ave., Bergen Beach, extension. Est. cost, $60,000. Eugene Klapp, Construct. Engr., 168 Montague St.

NEW YORK, N. Y.—The New York City Interborough Railway Co., which has obtained franchises for trolley roads in The Bronx, has filed a certificate of an increase in its capital stock from $400,000 to $5,-000,000.

CAZENOVIA, N. Y.—The Syracuse & Suburban Ry. Co. will build to this place this summer from Edwards Falls, eight miles. State Board of Railroad Commissioners has granted authority for this work. G. E. Higgins, Ch. Engr., Syracuse.

CORRY, PA.—Charter has been granted in Pennsylvania to the Corry & Findley Lake Trolley Co. for building a line from Corry to North East and Findley Lake. Noted last week as having incorporated in New York state. Cost, $1,000,000. C. P. NORTHRUP & CO., of Boston, will build the road.

PHILADELPHIA, PA.—The Philadelphia & West Chester Traction Co. has awarded the contract for the grading and masonry work upon its second track from 63d St., Philadelphia, to Monoa, to MILLARD & MCGRAW, of Philadelphia, about four miles. Improvements will cost about $100,000. A $100,000 power station at Ridley Creek in Willistown Township is being built.

SOMERSET, PA.—Sheriff Andrew J. Coleman will sell the property of the Meyersdale & Salisbury Street Railway Co., on May 12. The franchise will be sold also. The road was projected 18 months ago by Pittsburg capitalists. Work had been started and right-of-way secured. Work was abandoned. It is said the company will be reorganized after the sale and work will be resumed. The proposed railway was to connect Salisbury and Meyersdale, and when completed it was proposed to extend the line to Johnstown.

KENNETT SQUARE, PA.—The section of the West Chester, Kennett & Wilmington Electric Ry. has been sold at public sale at the power house by Bayard Henry, the receiver, at $200,000, to Vogeler, Kessler and Hertzler, a committee representing the bondholders. The portion in Delaware, four miles in length, was purchased by the same parties for $60,000.

PHILADELPHIA, PA.—The Philadelphia Rapid Transit Co. will make extensive improvements and extensions in every portion of the city, providing certain ordinances are passed by the common council. W. S. Twining, 820 Dauphin St., is Ch. Engr. Walter Ellis, 2250 North Eighth St., is Gen. Supt.

PHILADELPHIA, PA.—Contract for building the Philadelphia & Western Elec. Ry. has been let to J. L. BLACKWELL & CO., of Baltimore, it is said. Geo. Q. Horwitz is representative.

BALTIMORE, MD.—The United Railways & Electric Co. may reconstruct about 20 miles of track. It will also build tracks on Aisquith St., from Preston to Federal Sts., and thence to the city limits. D. B. Banks, Continental Trust Co., is Ch. Engr.

GRAFTON, W. VA.—A 50-year franchise to build and operate an electric street railway in this city has been granted by council to the Grafton Ry. & Light Co. Taylor & Ely, 500 Fifth Ave., New York, Engrs., inform us that at present nothing of definite nature has been decided.

ALEXANDRIA, LA.—I. W. Sylvester and H. B. Chase have been appointed by the Progressive League to consult with T. C. Bush, of Mobile, and G. U. Borde, of New Orleans, in preparation of plans for a 4-mile electric railway. Noted on April 20.

NEW ORLEANS, LA.—The New Orleans Railways Co., A. L. Black, 317 Baronne St., Ch. Engr., will spend $82,000 in improvements. We are informed that this is to be a 1-mile extension of two lines, which will be constructed by the company. Joseph H. De Grange is Secy.

MEMPHIS, TENN.—Contract has been awarded to FOSTER & CREIGHTON, of Nashville, for ballasting and grading the entire street railway system in Memphis. F. Smith is Gen. Supt., Memphis St. Ry. Co.

NORFOLK, O.—Bids are asked by T. P. Kellogg, Cy. Clk., until noon, May 12, for a franchise to construct and operate a street railroad on Benedict Ave.

ZANESVILLE, O.—Charles Burdett Hart, Investment Officer, Security Trust Co., Wheeling, W. Va., writes us that it "not expected to ask for proposals for the construction of the Southeastern Ohio Ry., Light & Power Co.'s line, extending from Zanesville to Crooksville, O." Mr. Hart is one of the promoters of this railway. Right-of-way is reported secured, as well as franchises. The capital of the Southeastern Co. has been increased from $10,000 to $600,000, according to a certificate filed. L. G. HALLECK, of Wheeling, has contract for construction of this railway, according to Zanesville "Signal."

BARBERTON, O.—Right-of-way is stated to have been secured for the Barberton, Wadsworth, Creston & Western Traction Co.'s line from Barberton to Wadsworth. It will extend, eventually, from Barberton to Mansfield, by way of Wadsworth, Rittman, Sterling, Creston, Burbank and West Salem. E. W. Buell, of Barberton; W. A. Ault, of Wadsworth; and W. S. Demming, of Lima, are interested.

BRYAN, O.—The Toledo & Indiana Ry. Co. will soon extend its line to Fort Wayne, Ind., from Bryan, it is reported. W. J. Sherman, Nasby Bldg., Toledo, is Ch. Engr.

KALAMAZOO, MICH.—George F. McCullough, of Indianapolis, Ind., will build a 70-mile trolley line from Kalamazoo to Niles, O. This would be a final link, connecting Chicago and Cleveland by trolley, about 500 miles long.

WEST UNION, O.—The Cincinnati, Georgetown & Portsmouth Ry., is to be extended from Georgetown to Portsmouth, via West Union, a distance of 60 miles, during the coming summer, according to a reported statement of J. N. Gardner and F. I. Smith, of New York, and George W. Nichols, of Cincinnati. A. H. Elfner, Cincinnati, is Supt. of Ry. Co.

DAYTON, O.—The Dayton & Northeastern Ry. Co. has been incorporated in Ohio with a capital of $100,000 to build an electric road from Dayton to Kenton, 75 miles, passing through Montgomery, Miami, Clark, Champaign, Logan and Hardin Counties. The incorporators are: Hugo Cook, W. W. Chambers and others, of Dayton.

PERU, IND.—The Commissioners of Miami County have ordered an election to be held on May 16 in Perry Township to vote on a proposition of a subsidy tax of $15,000 in aid of the Winona Electric Ry. Co.

MUNCIE, IND.—The Dayton & Muncie Traction Co. was recently granted additional franchise rights in this city. J. E. Leight, Dayton, O., is Secy.

EVANSVILLE, IND.—Charles Small, Ch. Engr., Fort Branch, Ind., informs us that contracts have not been let for building an extension of the Evansville & Princeton Traction Co. Right-of-way is secured and surveys are in progress. Project is financed. It is expected to have the line completed, by Sept. 1, to Owensville. Company is now operating 30 miles of line, connecting Evansville, Princeton, Ft. Branch, Haubstadt, St. James, Bauer and Highland.

The Evansville & Mt. Vernon Electric Co. has been organized here with a capital of $300,000, to build an electric line from Evansville to Mt. Vernon. The incorporators and directors are Dr. Edwin Walker and Fred. W. Reitz, of Evansville; Fred. P. Leonard and Braddock McGregor, of Mt. Vernon; and William M. Ford, of New Harmony. No stock will be offered for sale, but the bonds will be sold locally. A private right-of-way has been obtained between Evansville and Mt. Vernon. A franchise will be asked of Mt. Vernon council.

LA PORTE, IND.—The Chicago & South Shore Ry., by a decree of the Federal Court in Indianapolis, is to be sold at foreclosure sale. The company has bonds outstanding to the amount of $362,000. It extends from La Porte, Ind., to Michigan City, 14 miles. Fred. H. Fitch, Monadnock Bldg., Chicago, is Pres. Mr. Fitch is also the Receiver.

PETERSBURG, MICH.—The contract for constructing the Toledo, Ann Arbor & Detroit Electric railroad has been let to the PATRICK HIRSCH CONSTRUCTION CO. Work on the power plant at this place is to begin at once. It is expected to have the line in operation between Toledo and Ann Arbor this fall.

EAST ST. LOUIS, ILL.—The Marion & Harrisburg Electric Ry. Co. has been incorporated to build from Marion to Harrisburg. Capital, $10,000. C. S. Clarke and Alexander G. Cochran, of St. Louis, Mo.; W. S. Foreman, M. M. Stephens and H. L. Browning, of East St. Louis, are incorporators.

VERMILLION, ILL.—The Terre Haute Traction & Light Co. has been granted a franchise to operate through this city. Franchises will be asked in Sanford and Paris. Stone & Webster, 84 Church St., Boston, Mass., are Gen. Mgrs. and Engrs.

PEORIA, ILL.—The Peoria, Bloomington & Champaign Traction Co., of Champaign, has been incorporated, with capital stock of $5,000, to build an electric line from Peoria through the counties of Tazewell, McLean, Dewitt and Champaign, to a point in or near Champaign. Incorporators and directors: D. R. Stephens, Charles Zilly, H. J. Pepper, S. A. Powers, and W. B. McKinley, of Champaign.

CHICAGO, ILL.—Incorporation has been granted the Chicago, Bloomington & Decatur Ry. Co. of Champaign, with capital stock of $5,000; to build trolley line from a point in or near Chicago, through the counties of Will, Grundy, Livingston, McLean, Dewitt and Macon, to a point near Decatur. Incorporators and directors: D. R. Stephens, Charles Zilly, H. J. Pepper, S. A. Powers, and W. B. McKinley, of Champaign.

LA CROSSE, WIS.—The La Crosse & Onalaska Street Railway Co. will extend its electric line from Onalaska to Holmen, a distance of about ten miles. Surveyors have nearly completed the route.

PITTSBURG, KAN.—Fred. H. Fitch, Monadnock Bldg., Chicago, has stated that the Pittsburg Electric Railway system has been sold by President John J. Tyler, of Philadelphia, Pa., to Guy W. Walker, of New York, and himself. It is the intention to improve the present system and extend it.

GREAT FALLS, MONT.—Dr. Ernest Crutcher, of this city, and his associates, are obtaining franchises for the construction of electric railway lines on all of the highways of Cascade, Teton, Fergus and Lewis and Clark counties. It is reported that Dr. Crutcher contemplates the gridironing of Northern Montana with electric lines. He is said to have financial backing from California and Chicago men to the amount of $5,000,000.

EL PASO, TEX.—Council has granted franchise to George A. Nicholas, of Baltimore, and associates to construct a street railway system and an electric-light and power plant in El Paso. The street railway will be built to Fort Bliss. The company must construct the line within two years, according to agreement.

LEVIS, QUE.—The property of the Levis County Ry. Co. will be sold on May 6. T. B. Macauley, John Forsman and R. Audette are a committee in charge. Arthur E. Scott, Quebec, is Secy.

BRANTFORD, ONT.—C. H. Waters, of Brantford, and D. W. Karn, of Woodstock, are promoting the Brantford & Woodstock Railway Co. It was recently granted authority by Ontario House of Commons to build from Brantford via East Oxford, Burford and Blandford, to Woodstock. Noted on April 13.

HAMILTON, ONT.—The Hamilton, Galt & Berlin Electric Ry. Co. will extend its line to Guelph, Hespeler and Preston. The company's charter has been extended to cover this work.

EDMONTON, ALTA.—Contracts are let, it is reported, for construction of short electric railway at Edmonton. J. M. Campbell, of Kingston, Ont., is Engr.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

OXFORD, MASS.—Walter B. Nourse, 306 Main St., Worcester, Mass., has prepared plans for a power plant for the A. L. Joslin Shoe Co., of Oxford. It will be built by the owner.

AUBURN, N. Y.—Council has extended present contract with the Auburn Light, Heat & Power Co. for city lighting.

NEW YORK, N. Y.—Bids are asked until 10.30 a. m., May 5, for additions and alterations to electric lighting systems in certain fire-buildings in Manhattan and Bronx Boroughs. Nicholas J Hayes, Fire Comr.

OSWEGO, N. Y.—Bids are asked until May 18, noon, for necessary generators, motors, transformers and other electrical equipment for Lake Water extension. F. W. Ormsby, Secy. Dept. Water. (Advertised, Engineering News.)

WATKINS, N. Y.—Water and Sewer Commission has awarded contracts for construction of municipal lighting plant as follows: JOHN COUGHLIN, Watkins, changes in power house; DEAN PUMP CO., two pumps, $2,300; SHEPARD ENGINE CO., vertical 140-HP. engine, $1,905; M. W. KELLOGG & CO., brick smokestack, $1,190; FITZGIBBONS BOILER CO., two vertical boilers, $4,051; STANLEY ELECTRIC & MFG. CO., two generators and motors, $3,717; ADAMS-BOGNALL CO., 65 arc lamps and two regulators, $1,390.

ALBANY, N. Y.—The Westinghouse Elec. & Mfg. Co., 120 Broadway, New York, is reported to be preparing plans and estimates for a municipal electric lighting plant for this city.

OXFORD, PA.—Bids are asked until May 17 for complete installation of gas plant, including holder, gas apparatus, street mains, etc. James D. Burn, Pres. Citizens' Gas & Fuel Co.

WASHINGTON, D. C.—Bids are asked by District Commissioners until May 31 for constructing and installing heating, lighting, power plant and water supply for Industrial Home School at Blue Plains; bids are wanted also for construction of sewerage. (Advertised, Engineering News.)

WASHINGTON, D. C.—Bids are asked until May 20 for furnishing and installing complete electric lighting plant for Washington filtration plant. Lt.-Col. Smith S. Leach, U. S. Engrs. (Advertised, Engineering News.)

NEWMARKET, VA.—Rice Snapp has been given a franchise to erect and operate an electric light plant and lighting system.

ASHLAND, VA.—Bids for the construction of an electric light and power plant for this city will be received until May 18. C. W. Crew, Mayor.

MARTINSVILLE, VA.—S. S. ORDWAY & SONS CO., Winston-Salem, N. C., have contract to build a $15,000 stone dam for the city in connection with a proposed municipal electrical plant.

ORANGEBURG, S. C.—Bids are asked for immediate changes of arc light machinery and lamps, city electric light plant, Orangeburg, S. C. Bids asked for alternating current enclosed system. Particulars on request. Address the Commissioner Public Works.

GREENVILLE, S. C.—We are informed that bids were received on April 24 for building $250,000 power plant on Saluda River, 4½ miles from this city, for the Saluda River Power Co. Company was recently incorporated with $300,000 capital. A 38-ft. dam will be built. Lockwood, Greene & Co., 93 Federal St., Boston, Mass., are Engrs. and Archs. A. G. Furman is Pres.

MONROE, GA.—City has voted $15,000 of bonds for electric light plant. J. B. McCrary, Senoia, Ga., has been engaged to prepare plans and specifications.

AUSTELL, GA.—C. J. Shelverton, Mayor, writes us that bids will be received at once for building an electric-light plant. It will cost between $3,000 and $4,000. Money is to be raised by sale of city bonds for this purpose. It will be operated by water power. There will be 29 arc and 200 16 and 32-c. p. incandescent lights.

JACKSON, GA.—See under Water-Works.

SAVANNAH, GA.—The Savannah Lumber Co. is interested in plan to build a lighting plant. The Savannah Lighting Co. has been organized, with capital of $500,000, to control the plant.

LAGRANGE, GA.—We are informed that bonds have not yet been sold for proposed electric-light plant. Est. cost, $25,000. No engineer has been appointed. Capacity of plant is to be 75 2,000-c.-p. arc and 2,000 16-c. p. incandescent lights. No steps toward construction will be taken for 30 or 60 days. Roy Dallis is Ch. Comn.

AUGUSTA, GA.—R. V. Howes, Mgr. Gas Light Co., informs us that only immediate improvement contemplated is the rebuilding of some of the benches. Contract for this work was let to the PARKER-RUSSELL MINING & MFG. CO., of St. Louis, Mo. Capital stock was recently increased to $1,000,000.

HATTIESBURG, MISS.—THE JAMES Z. GEORGE CO., of New Orleans, La., has been awarded contract to build gas, electric light and electric street railway plants in this city for the Hattiesburg Traction Co. The promoters of the scheme are Capt. J. T. Jones, of Gulfport, Miss.; G. L. Hawkins, Pres. of First National Bank of Hattiesburg; H. A. Camp, of Camp & Hinton, of Lumberton; H. L. McKee, of Meridian; A. L. Thomason, cashier of First National Bank of Hattiesburg; J. L. Kearney, of Hattiesburg, and others. Noted on April 27.

LAUREL, MISS.—The Laurel Improvement Co. has accepted the franchise offered by the city of Laurel and will begin at once the erection and installation of a $25,000 light and power plant.

OWENSBORO, KY.—A 20-year gas franchise will be sold if signed by mayor. C. F. Hoppe, Supt. Owensboro Gas Light Co., has stated that company, if granted a new franchise, will expend $150,000 on a new system in the next three years.

BRISTOL, TENN.—Cash bids are asked until May 10, noon, for a franchise to operate electric light and power plants in Bristol. J. W. Mort is Pres. An application for such a franchise has been applied for by James Gannon.

CINCINNATI, O.—Bids are asked until noon, May 11, for remodeling present heating system into an automatic atmospheric system; for a new system of power piping, pumps, heaters, etc., connecting old power plant; for three water tube boilers, brick work, fixtures, breeching, etc. Each item must be bid on separately. Dr. F. W. Harmon, Supt. Longview Hospital, Paddock road.

RICHMOND, IND.—A heating plant may be installed at court-house.

MARION, IND.—Municipal ownership of electric-light plant is under consideration.

PENTWATER, MICH.—We are informed that the Oceana Electric Light & Power Co., B. C. Lindley, Pres., Pentwater, is having plans made for the development of 700 HP. under a 28-ft. head on the Pere Marquette River. A timber dam, 300 ft. long, with a concrete retaining wall back of the power house will be used for damming the stream. Plans are being made by Harry J. McDargh, Consulting Engineer, Dayton, O., and will be completed, ready for bids, about May 15.

BLOOMINGTON, ILL.—Wm. B. McKinley, Champaign, Ill., heads a syndicate of financiers that has purchased the electric light and power and heating plant of the Consumers' Electric Co., Bloomington. It is said that extensive improvements are to be made. D. F. Schrockenstein is Ch. Engr.

CHICAGO, ILL.—The Consumers' Light, Heat & Power Co., of Chicago, Ill., has been incorporated in Delaware, to furnish heat, light and power for public buildings, etc. Incorporators: W. M. Flook, 46 Delaware Pl., Chicago; James L. Wolcott and James H. Hughes, Dover, Del. Capital stock, $1,000,-000. The Citizens' Light, Heat & Power Co., of Chicago, has also been incorporated. The objects are the same as the above company. The incorporators also are the same. Capital stock, $300,000.

MILWAUKEE, WIS.—We are informed that plans are not materialized for building plant for Union Light & Power Co. It was recently incorporated by A. G. Marks, Robert R. Freeman, L. B. Budd and others, with $5,000 capital.

FERGUS FALLS, MINN.—J. T. Fanning, Engr., Minneapolis, Minn., writes us that city has not yet issued bonds for replacing present electric power dam with a concrete dam and may not be able to undertake this project this season. Noted on April 20.

MARSHALL, MINN.—Bids are asked until May 13, 8 p. m., for the removal and placing of an old boiler at power plant and furnishing and installing a new 72-in. × 18-ft. high pressure tubular boiler, suspended from steel I-beams. John R. Gray, Cy. Recorder.

MINNEAPOLIS, MINN.—The NORTHERN ELECTRICAL MFG. CO. has been awarded contract for a generator and engine for lighting plant at city hospital. Charles L. Pillsbury is in charge.

WINFIELD, KAN.—At special election it was voted to issue $15,000 of bonds to complete the electric lighting plant.

DODGE, NEB.—E. J. Popelar, Village Clk., writes us that state auditor has passed upon bonds for electric light plant. No steps have yet been taken. No engineer has been selected. Bonds will be put on sale before June 15. Noted on April 20.

LITTLE ROCK, ARK.—The Merchants' Investment Co. has been chartered, with a capital of $250,000 for the purpose of building an electric light and power plant. C. J. Kramer is Pres.; Wm. S. Mitchell, Vice-Pres.; J. B. Wishendorff, Secy.; Henry Lasker, Treas.

BALLARD, WASH.—The Ballard Electric Co. will improve its system here. Fred. G. Simpson is Ch. Engr. and Mgr.

WASHTUCNA, WASH.—Town is considering the feasibility of installing a central plant for the purpose of lighting the city with acetylene gas.

GOLDENDALE, WASH.—H. W. Fellows, of Spokane, has placed proposition before the council of Goldendale to construct an electric light plant in this city involving outlay of

about $50,000. Power will be developed from falls of the Little Klickitat. It is said that construction of a flour mill at Centerville, to be erected in the near future, and operated by electricity, is included in the scheme.

WASCO, ORE.—We are advised that the Wasco Milling Co., of Wasco, has purchased the Cooper water power rights, 11 miles east of this city. Company will install a large electric plant to supply the mills of this city and Moro, and also to furnish lighting power to other parties.

LONGBEACH, CAL.—The United Improvement Co., capitalized at $1,000,000, has been incorporated in Los Angeles with the object of erecting and operating gas and electric lighting plants at Longbeach. The directors of the concern are H. S. Farnsworth, W. G Blair, F. F. Briggs, M. Emmet May, L. Whelpley, T. R. Owen, S. L. Farnsworth, C. W. Whitfield, Lewis C. Rose, of Los Angeles. They have subscribed $50,080. H. S. Farnsworth, Braly Bldg., Los Angeles, is Pres. It is said that construction work will be handled by him.

SANTA ANA, CAL.—Bids are asked until May 8, 5 p. m., for purchase of $57,000 of electric light and power bonds. Edward Tedford, Cy. Clk.

SEBASTOPOL, CAL.—Bids are asked until June 6 for a franchise to construct and operate electric light and power systems. W. T. Searles, Town Clk.

SAN DIEGO, CAL.—The San Diego Consolidated Gas & Electric Co. is about to absorb the San Diego Gas & Electric Light Co. An amount of new capital will be expended by the new company in the way of extensions to the existing plant. R. L. Clarke, Supt.

CLIFTON, ARIZ.—B. M. Donaldson, of El Paso, Tex., has secured a franchise to establish an electric-light plant, at a cost of $50,-000, for this city and Morenci.

PROVO CITY, UTAH.—We are informed by Frank C. Kelsey, C. E., Salt Lake City, that surveys have been completed and plans are now being made for Provo City. An election will be held soon to vote on the question of issuing bonds to raise money to build the lighting plant and complete the water-works improvements.

SHOSHONE, IDAHO.—The Shoshone Power Co. has been incorporated in Salt Lake City with $5,000,000 capital. F. M. Lyman, Jr., Salt Lake City, Utah, is Ch. Engr. Incorporators are Francis M. Lyman, John A. Bagley, L. R. Martineau and A. L. Woolley. It is planned to generate 65,000 HP. Estimated cost of plant is $1,000,000.

PAYETTE, IDAHO.—City council has granted three franchises, one for gas plant, one for electric light and one for electric railways, to William and Sinclair Mainland. Work on light plant must begin within 12 months; cars must be running on railways within 18 months; gas plant to be commenced when city can show population of 5,000, and must be completed within 20 months thereafter.

GRAND FALLS, N. B.—Consul-General W. R. Holloway, at Halifax, N. S., reports that B. E. Kingman, 542 Fifth Ave., New York, and F. Sayles, of Providence, R. I., are interested in a project to develop the water power of Grand Falls, N. B., including the manufacture of ferro-manganese at the falls and the operation of pulp, paper and saw mills, the operation of an international railway by electricity and the transmission of electricity for lighting and manufacturing as far as St. John. The project will involve an outlay of from $3,000,000 to $4,000,000.

PORTAGE LA PRAIRIE, MAN.—Contract for erecting power house for new water-works was awarded to CHARLES JEFFREY, a local contractor, at $9,997.

DAUPHIN, MAN.—Election is to be held to vote on issuance of $25,000 of bonds for installing an electric light plant.

EDMONTON, ALTA.—Bids are asked until May 15, in one lump sum, for wire, transformers, switch board and other material, for installing series of arc lighting. J. H. Hargreaves, Public Works Comr. G. J. Kinnaird, Secy. (Advertised, Engineering News.)

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

ST. JOHNSBURY, VT.—Board of Selectmen has engaged an engineer to draw plans for new steel bridge across Passumpsic River at Portland St.

BROOKLYN, N. Y.—The Brooklyn Grade Crossing Commissioner awarded contract for masonry abutments for 15 steel bridges or more in South Brooklyn to BEINHAUER & LEE.

ASBURY PARK, N. J.—Bids are asked by Board of Chosen Freeholders until May 5, noon, for the erection of bridge over Deal Lake. Leon Cubberly, Engr., 180 Broadway, Long Branch.

CAPE MAY, N. J.—The County Board of Freeholders awarded contract for new turnpike bridge to ROBT. E. HAND for $5,900.

WEST NEWTON, PA.—Plans and specifications prepared by Emil Swensson, Engr., Frick Bldg., Pittsburg, for a new bridge to span Youghiogheny River were accepted. Cost, $65,000.

PHILADELPHIA, PA. — The following bridge contracts were awarded by Philadelphia & Reading R. R. Co., Wm. Hunter, Ch. Engr.: Steel bridge, Moore's Mill, LEWIS F. SHOEMAKER, Harrison Bldg, Philadelphia; one bridge at the Delaware and Maryland Junction and two bridges near Granthan, PHOENIX BRIDGE CO., 410 Walnut St., Philadelphia; one bridge at Dillsburg Junction, KEYSTONE STRUCTURAL CO., Harrison Bldg.

EASTON, PA.—The Easton Transit Co. has awarded to THOS. M. LESHER, of this city, the contract to build a bridge from north side of Lehigh River to Island Park.

DUNMORE, PA.—Plans have been prepared for construction of a viaduct over Lackawanna tracks at Dunmore. The viaduct will be built jointly by Lackawanna Railroad and Laurel Line. The Borough Clerk can give information.

CHESTER, PA.—James P. Wetherill, of Wetherill Bros. Machine Co., has been instrumental in having a petition signed for a bridge across Chester Creek at Fifth St. This petition will be acted on by courts the first week in May. The bridge is badly needed and the prospects are it will go through.

BALTIMORE, MD.—Plans of Subway Engineer Phelps for a concrete bridge over Jones' Falls at Granby St. have been approved by Electrical Commission. The bridge is to cost about $3,000. The plans will be submitted to Harbor Board for its approval.

WASHINGTON, D. C.—Gen. Mackenzie, Ch. of Engrs., has awarded a contract to ERNEST L. MINER, of Petersburg, Va., for construction of an earth embankment for Virginia approach to highway bridge across Potomac at his offer to deposit 70,000 cu. yds. of earth at 64 cts. per cu. yd., or $44,800 in all. Other bids were McMullen & McDermott, at $54,600, and F. S. Carmody Co., at $69,300, both of this city.

GEORGETOWN, S. C.—Bids are asked by Commissioners of Georgetown and Williamsburg counties until May 16 for construction of a stationary steel bridge with brick foundation, 180 ft. long, across Black Mingo Creek on county line road. J. B. Johnson, Supv. Georgetown County, Georgetown.

LEVON, FLA.—The West Lumber Mills want to let contract to build trestle, 800 ft. long, 12 ft. high, across.

ROSEPINE, LA.—It is stated that bids will be received by President of Police Jury, Rosepine, until May 20 for building 10 bridges in Vernon Parish.

NASHVILLE, TENN.—Contract for building steel bridge with concrete floor over White's Creek was awarded to W. T. YOUNG for $1,057.

ASHLAND, KY.—Interstate Bridge Co. of Kentucky has been incorporated with John F. Hager, Pres., to build a bridge across Ohio River at Ashland.

TOLEDO, O.—It is stated that the Cherry St. bridge will be repaired at once, at a cost of $7,000. Frank I. Consaul is Ch. Engr. Bd. Pub. Serv.

INDIANAPOLIS, IND.—The following contracts were awarded by County Commissioners, April 24, for constructing bridges: FRITZ & FRAZIER, bridge in Center Township, $6,206; JAMES A. HARDING, bridge over Lick Creek, $4,850; LAFAYETTE (Ind.) ENGINEERING CO., bridge over canal at Central Ave., $3,474; AMERICAN CONSTRUCTION CO., of Indianapolis, bridge over Crooked Creek, $2,645.

NEW CASTLE, IND.—County Council has appropriated money with which to construct a new 100 ft. bridge over Fall Creek. This bridge will be erected this summer and will cost $2,000.

ROCKVILLE, IND.—Harry Grube, County Audr., is asking for bids for construction of bridge over Sugar Creek in Reserve Township.

WINCHESTER, IND.—The Randolph County Commissioners awarded contract for 18 bridges to be constructed this summer to J. T. MOORMAN, of this city, representing the Indiana Bridge Co., of Muncie, for an aggregate sum of $13,966.

HARTFORD CITY, IND.—Bids are asked by L. C. Johnson, County Audr., until May 11 for construction of three steel concrete bridges.

PORTLAND, IND.—We are informed that contract for constructing 60-ft. steel bridge and a 40-ft. steel bridge was let to BELLEFONTAINE BRIDGE CO., Bellefontaine, O., for $1,780 and $1,200, respectively. Bids were received May 1. W. Lea Smith, County Audr.

ADA, MICH.—It is proposed to construct a bridge over Grand River at Ada to cost about $8,000. Address R. A. Mosher, of Grand Rapids, Deputy County Clk.

MILWAUKEE, WIS.—We are informed that the Board Park Commissioners on April 26 awarded the contract for new reinforced concrete arch bridge at Lake Park to NEWTON ENGINEERING CO., of Milwaukee, for $6,-246. The contractors are in the market for about 1,000 bbls. of cement, as well as broken stone and sand.

MANITOWAC, WIS.—J. H. KIETH & CO., of this city, have been awarded contract for all bridge and trestle work on the extension of Chicago & Northwestern from this city north to Green Bay.

LA CROSSE, WIS.—The LA CROSSE BRIDGE CO. has been awarded contract for construction of a 50-ft. span steel bridge in town of Barre, for $1,450.

SIOUX CITY, IA.—It is understood that the Great Northern Ry. Co. proposes to build a bridge across Missouri River at Sioux City. Cost, $1,000,000. A. H. Hogeland is Ch. Engr., St. Paul, Minn.

DES MOINES, IA.—An appropriation of $39,919 for completion of Sixth Ave. bridge and its approaches was included in annual budget, recently passed by City Council. John W. Budd is Cy. Engr.

MINNEAPOLIS, MINN.—Bridge work estimated to cost $750,000 is reported as projected at Minneapolis this year. This includes three bridges that the Chicago, Milwaukee & St. Paul, C. F. Loweth, Bridge Engr., Chicago, and the Northern Pacific, E. J. Pearson, Ch. Engr., St. Paul, are expected to be ordered to build in southeastern Minneapolis at a cost of $350,000.

MINNEAPOLIS, MINN.—The street railway company has let contract to MINNEAPOLIS STEEL & MACHINERY CO. for repairing and strengthening Lake St. bridge.

TOPEKA, KAN.—County Commissioners have let contract to TOPEKA BRIDGE CO. for building Sardau Ave. bridge over Kaw River. Cost, about $13,000.

MITCHELL, S. DAK.—Bids are asked by O. D. Stearns, County Audr., until May 20 for constructing a 100-ft. steel bridge across James River in Perry Township.

ELLENDALE, N. DAK.—Bids, including specifications, are asked by A. W. Eygabroad, County Audr., until May 24 for constructing a steel or combination bridge across Maple River.

PALESTINE, TEX.—The MISSOURI VALLEY BRIDGE CO., of Leavenworth, Kan., has closed a contract with the International & Great Northern Railroad to replace all bridges with heavy steel material, between Palestine and San Antonio. The work will begin at once. Cost, about $600,000.

STILLWATER, OKLA.—Bids are asked by County Commissioners until May 8 for furnishing material and constructing 19 steel bridges; spans ranging from 30 to 70 ft. with a 14-ft. roadway. J. C. Donart, County Clk.

PAWNEE, OKLA.—The CANTON (O.) BRIDGE CO. has secured contract for two bridges at Appalachia and Baker for $13,339.

FORT COLLINS, COLO.—It is stated that a steel bridge will be built at College Ave.

DENVER, COLO.—C. W. Wells, Deputy State Engr., informs us that the following appropriations were made by Fifteenth General Assembly for bridge work to be done by State Engineer's office the next two years: Pagosa Springs, $3,000, iron or steel; Guadalupe, $3,500, steel or combination; Alamosa, $7,000, iron or steel; near Rico, $2,000, determined by board; near Denver, $1,500; steel tubular piers; Sopris, $6,000; La Posta, $3,000; Vallery Station, $2,000; near Lamar, $4,000; near Holly, $5,000; near Monte Vista, $4,000; near Maybell, $5,000, steel or combination; near Trinidad, $2,000. T. W. Jaycox, State Engr.

EVERETT, WASH.—Bids are asked by County Commissioners until May 15 for building bridge over south fork of Stillaguamish River, near Granite Falls. S. Vestal, County Audr.

TACOMA, WASH.—County Commissioners awarded contract, April 24, for construction of new drawbridge between Purdy and Springfield to NORTHWEST BRIDGE CO., of Tacoma, for $5,280.

COLVILLE, WASH.—County Commissioners awarded to BRYAN & ACORN, of Colville, the contract for construction of a pile bridge 550 ft. in length at Arden. The same firm also received the award for construction of gravel fill at Valley. The construction of fill will require about 3,000 yds. of gravel.

SPOKANE, WASH.—Bids were opened, as follows, for construction of Havermale bridge: Wm. Olliver, Spokane, $22,800; American Bridge Co., Seattle, $17,000; same company, lighter structure, $16,197; Victor Costel'o, Spokane, $17,400; Puget Sound Bridge & Dredging Co., Seattle, $18,494; Zirngibl & Marshall, Spokane, $16,339; same firm, lighter structure, $16,294.

DAVENPORT, WASH.—County Commissioners awarded contract for building new bridge across Park canyon to PUGET SOUND BRIDGE & DREDGING CO. for $3,799.

COLFAX, WASH.—H. H. Wheeler, County Audr., awarded to A. VALK, of Pullman contract for erecting three bridges for $5,210.

SAN BERNARDINO, CAL.—Bids are asked by Board of Supervisors until May 22 for construction of a bridge over Chino Creek on Stein Road. The bridge shall have a total length of 45 ft. and shall consist of 1-3 Panel Warren Riveted Steel Span, resting upon steel cylinder piers with concrete. Width of roadway shall be 18 ft. L. A. Pfeiffer, County Clk.; M. L. Cook, County Surv.

WILLOWS, CAL.—Board of Supervisors let contract April 21 for construction of Butte City bridge to COTTON BROS & CO., of Oakland, for $21,948.

RENO, NEV.—A bond issue of $60,000 for the purpose of building a new bridge over Truckee River on Virginian St., removing old structure to another point and for construction of any other bridges needed in county, has been ordered by County Commissioners.

MOSCOW, IDAHO.—We are informed that bids were opened April 20 by County Commissioners for constructing bridges over Bear, Deep and Paradise Creeks, and that the contract was awarded to ELI H. HARRIS, of Moscow, for $779.

COEUR D'ALENE, IDAHO.—Plans for construction of bridge across Spokane River, near Coeur d'Alene, by Northern Pacific Railroad have been approved by Secretary of War. The structure will have a span of 150 ft. and be 43 ft. above the surface of river. E. J. Pearson is Ch. Engr., St. Paul, Minn.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

CONCORD, N. H.—Bids are asked by Trustees of N. H. State Hospital, care Dr. C. P. Bancroft, until May 9 for construction of hospital building, six iron fireproof stairways, storehouse and employes' building. Wm. M. Butterfield, Arch., Manchester.

FRANKLIN, N. H.—Bids are asked by Willard E. Everett, Chn. Bldg. Com., Franklin Falls, until May 6, 5 p. m., for the erection of a public library building. Plans and specifications may be seen at office of McLean & Wright, Archs., 110 Tremont St., Boston, Mass.

PORTSMOUTH, N. H.—Bids are asked by Quartermaster, U. S. Marine Corps, Washington, D. C., until May 15 for constructing two buildings at navy yard, Portsmouth.

BOSTON, MASS.—The following were bids received under Item No. 1, April 29 for fireproof floors and stairways for building No. 42, navy yard: James W. McArdle, 95 Milk St., $49,643; C. M. Leach, navy yard, $21,-983; Coleman Bros., Everett, Mass., $21,983; Atlas Reinforced Concrete Const. Co., 8 Beacon St., $46,908; Simpson Bros. Corp., 166 Devonshire St., $36,122.

FALL RIVER, MASS.—Bids will be received by Louis G. Destremps & Son, Archs., 56 Main St., about May 15 for a 9-room school building for St. Joseph's parish.

SAUGUS, MASS.—Pl[illegible]re under way for a new school, to cost a[illegible] $100,000. Geo. M. Amerige is Chn. Schoo[illegible], Cliftondale.

MERIDEN, CONN.—[illegible] committee appointed to accept bids [illegible]w town hall met April 21, and awarded [illegible]ct to H. WALES LINES CO., for $141,[illegible] including heating and ventilating.

HARTFORD, CONN[illegible] Barber, Arch., 24 East 23d St., New Y[illegible] won the competition prize in securing [illegible]fice building for Travelers' Insurance C[illegible] Hartford. An isolated plant will pr[illegible]y be installed, which will include boil[illegible] engines, generators, etc. Plans will be [illegible]d at once.

NEW YORK, N. Y.—P[illegible] have been filed by Neville & Bagge, A[illegible] 217 West 125th St., for six-story flats, 7[illegible] ft., for Knight & Dongan Construction C[illegible] to be erected on Broadway, near 135th St. [illegible]st, $145,000.

By Benj. W. Levitan, A[illegible] 20 West 31st St., for four 5-story te[illegible] houses, 37 x 118 ft., for I. I. Schapi[illegible] be erected on Prospect Ave., near 169th [illegible] Cost, $160,000.

TROY, N. Y.—Whitefi[illegible] & King, Archs., 160 Fifth Ave., New Y[illegible] have prepared plans for new Carnegie bu[illegible]g for Rensselaer Polytechnic Institute, [illegible] Troy. Brick, 4 stories, 60 × 100 ft. An[illegible] Carnegie gave $250,000 for the constru[illegible] of building.

BROOKLYN, N. Y.—W[illegible]inson, Arch., 13 Park Row, New York, [illegible] finished plans for six 7-story warehouses [illegible] Bush Terminal Co., foot 43d St., Brooklyn. Cost, $240,000.

BUFFALO, N. Y.—Walter T. Wilson and others will build store buildings at 705 Main St., to cost about $60,000.

ST. GEORGE (S. I.), N. Y.—LOUIS WECHSLER, 1133 Broadway, New York, has obtained contracts amounting to $186,500 for the interior work, including partitions, of Richmond Borough Hall, St. George, Staten Island. Carrere & Hastings, 28 East 41st St., are Archs.

NEW YORK, N. Y.—D. C. WEEKS & SON, 289 Fourth Ave., have obtained general contract for improvements to telephone exchange and office building, 424-30 West 58th St., for N. Y. Telephone Co., 13 Dey St., at an estimated cost of about $125,000. A 5-story side extension, 45 × 94 ft., will be erected, and two stories will be added over main structure. Eidlitz & McKenzie, 1123 Broadway, are Archs.

NEW YORK, N. Y.—The THOMPSON-STARRETT CO., 49 Wall St., has obtained from C. P. H. Gilbert, Arch., 1123 Broadway, the general contract for construction of proposed new 11-story "Raimon" Building at Fifth Ave. and 39th St.

NEW YORK, N. Y.—Buchman & Fox, Archs., 11 East 59th St., have completed plans for a residence at 51 West 52d St., for Louise C. Mohlman, 52 West 52d St. Brick and stone, 4 stories, 20 × 90 ft.

Saks & Co., 34th St. and Broadway, will probably install a power plant the coming year. Engines, boilers, generators and motors will be required.

Oscar Lowinson, Arch., 29 West 42d St., is preparing plans for a $500,000 7-story hotel, to be erected at West End for A. L. Myers, 27 William St., N. J. An isolated power plant will be installed, which will include engines, generators, motors, boilers, blowers, heating system, switchboards, electric wiring, plumbing fixtures, six elevators.

An addition to New York Cotton Exchange 9 stories, 25 × 60 ft., is contemplated. Maynicke & Franke, 298 Fifth Ave., are Archs.; Pattison Bros., 949 Broadway, are Elec. Engrs. One new unit, consisting of boiler, engine and generator, will be installed.

An office building, 20 stories, 75 x 150 ft., will be erected at West and Cedar Sts. by Gen. Howard Carroll, of Tarrytown, N. Y. Cass Gilbert, 79 Wall St., is Arch.; B. S. Harrison, 79 Wall St., is Engr.

R. L. Davis, 130 Fulton St., is preparing plans for a large addition to Hoffman House. It is likely that several additional units will be installed in power plant.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. of Schools, until May 15 for general construction, etc., of new public school 92 on Robinson St., Borough of Brooklyn.

Bids will also be received for construction of school in Borough of Richmond.

LITTLE FALLS, N. Y.—Bids are asked by James Knox Taylor, Supv. Arch., Washington, D. C., until June 1 for construction complete of U. S. post-office at Little Falls.

KINGS PARK, N. Y.—Bids are asked by State Commission in Lunacy, T. E. McGarr, Secy., Albany, N. Y., until May 17 for completing unfinished construction and plumbing contracts on Nurses' Home at Long Island State Hospital, Kings Park. (Advertised, Engineering News.)

WEST POINT, N. Y.—Following bids were received April 20 by Major J. M. Carson, Jr., Q.-M., U. S. M. A., for erection of Cadet barracks and two double and four triple sets of officers' quarters; (1) cadet barracks, complete; (2) cadet barracks, construction proper; (3) deduction if north wing of cadet barracks is omitted, (4) captains' quarters, complete; (5) captains' quarters, construction proper; (6) lieutenants' quarters, complete; (7) lieutenants' quarters, construction proper; (8) barracks and officers' quarters, complete: John Pierce Co., 270 Broadway, New York, (1) $439,000, (3) $143,000, (4) $1[illegible],192, (6) $257,836; Mosier & Summers, 1206 Seneca St., Buffalo, N. Y., (2) $366,800, (3) $1[illegible], (5) $71,547, (7) $166,026; Buckley Realty Construction Co., Times Bldg., New York, (1) $478,000, (3) $105,000, (4) $115,0[illegible], (6) $200,-000; P. J. Carlin Construction Co., 1 Madison Ave., New York, (1) $489,0[illegible], (3) $150,-000; John H. Parker Co., 225 Fourth Ave., New York, (2) $406,979, (3) $94,[illegible], (5) $79,-554, (7) $203,978; Denniston & Co., Rochester, N. Y., (2) $307,300, (5) $69,358, [illegible] $188,461; Fissel & Wagner, St. James Bldg., New York, (4) $122,054, (6) $268,527; James F. Disken, 114 E. 23d St., New York, (4) $141,[illegible]25; James E. Leamy & Co., Syracuse, N. Y., (2) $3[illegible],-547, (3) $123,600, (5) $74,089, (7) $165,361; Morris Kantrowitz, 78 State St., Albany, N. Y., (5) $81,451; (7) $266,442, construction proper, with grading; or will do construction

of all [illegible] officers' quarters, if taken together, for the [illegible] of $330,499; Broderick & Wind Engineering & Construction Co., 1 Madison Ave., New York, (8) $622,500, (3) $115,000; Richard [illegible] Heningham, 4-5 Court Sq., Brooklyn, N. Y., (8) $849,954, (1) $498,668, (3) $148,[illegible] Collins Bros., Bensen Bldg., Albany, N. Y., [illegible] $1,010,535, (3) $172,878; V. J. Hedden & [illegible] Co., New York, (8) $879,406, (3) $133,4[illegible]

FORT HANCOCK, N. J.—Bids are asked until M[illegible] 20 for installing electric lighting fixtures in five buildings here. Abe S. Bickham, Q. M.

PRINCETON, N. J.—The Colonial Club is having plans prepared for club-house. R. W. Gibson, [illegible] William St., New York, is Arch. Cost, [illegible]00.

JERSEY CITY, N. J.—The Erie Railroad has submitted plans for its proposed Jersey City terminal to city authorities. Cost, $8,0[illegible]. There will be 550 ft. of tunnel under [illegible] Heights.

KEARNY, N. J.—Jos. Kennedy, Arch., 8 Kearny Ave., has prepared plans for St. Cecelia [illegible] C. Church for the erection of a parochial school on Chestnut St. Cost, $50,0[illegible]

WEST CHESTER, PA.—Plans are being prepared by Seymour & Paul A. Davis, Archs., [illegible]07 Walnut St., Philadelphia, for a $70,[illegible] high school.

PHILADELPHIA, PA.—Ordinances have been introduced in Council to expend $400,000 for a high school on Lehigh Ave.; to erect a school at Sixth St. and Hunting Park Ave., cost $80,000; appropriating $20,000 to build wing to E. T. Steel school; $10,000 to enlarge A. D. Bache school, 22d and Brown Sts.; $30,000 to erect a school at Foust and Oakland Sts., and $80,000 to rebuild Oakdale school, 11th and Huntingdon Sts.

PHILADELPHIA, PA.—CRAMP & CO. have submitted lowest bid, $50,000, to G. W. & W. D. Hewitt, Archs., for 4-story fireproof dormitory and 1-story dining hall at Old Man's Home, at Saunders Ave. and Baring St.

PITTSBURG, PA.—McCollum & Dowler, Archs., Bank of Savings Bldg., awarded contract to GOLDEN & CRICK, 3512 Fifth Ave., for 12-story hotel for The Annex Hotel Co., Penn Ave. and Sixth St. Cost, $450,000.

Arrangements have been completed for a 10-story hotel on Chestnut St. for the Boothby Hotel Co., the cost of which is estimated at $1,000,000. This sum will include the interior and exterior decorations, but not the furnishings. Ralph E. White & Co., Pennsylvania Bldg., are Archs.

SCRANTON, PA.—Ed. Langley, Arch., Connell Bldg., has about completed plans for hospital building for Hahnemann Hospital. Cost, $75,000.

NORRISTOWN, PA.—Philip H. Johnson, Arch., Land Title Bldg., Philadelphia, is preparing plans for four temporary barracks for State Hospital for Insane. Cost, $70,000.

BURNHAM, PA.—The Standard Steel Co. has invited bids for a pattern storage house. Brick, 4 stories, 50 × 150 ft.

PHILADELPHIA, PA.—W. L' Blithe, Arch., 14 South Broad St., is preparing plans for church at 55th and Catherine Sts., for Wharton St. M. E. Church. Cost, $100,000.

ALTOONA, PA.—Bids will be received by E. A. Westover, Arch., Keith Bldg., Philadelphia, on May 10 for furniture store for O. Rothert. Brick, stone and steel, 5 stories, 60 × 120 ft. Cost, $60,000.

LEBANON, PA.—WM. WEIKEL, of Lebanon, has been awarded contract for dormitory for Lebanon Valley College, to cost about $50,000.

PITTSBURG, PA.—F. J. Osterling, Arch., Times Bldg., is taking bids for a school house on Bedford Ave. Cost, $90,000.

AUSTIN, PA.—Bids are asked by School Board until May 22 for the erection of an 8-room school building. G. M. Rees, Arch., Coudersport, Pa.

DELAWARE CITY, DEL.—Bids are asked until May 10, 11 a. m., for construction of an oil house at Fort Mott, N. J. Capt. Louis F. Garrard, Jr., Q. M., U. S. A.

BALTIMORE, MD.—Pell & Corbett, Archs., 31 Union Square, New York, have plans for new Maryland Institute building, at Mount Royal Ave. and Lanvale St. Brick and steel, stories, 115 × 140 ft. Cost, $400,000.

Charles L. Stockhausen, National Marine Bank Bldg., is lowest bidder, at $82,950, for construction of proposed municipal school at Ramsay and Pulaski Sts. Brick, 3 stories, 80 × 157 ft. Mr. Stockhausen was also lowest bidder, at $89,000, for construction of school at Lakewood Ave. and Oliver St.

BALTIMORE, MD.—The Centre Market Improvement Commission, Felix Agnus, Chn., City Hall, has accepted plans of Simonson & Pietsch, Archs., for proposed building for Maryland Institute and retail market. Cost, $200,000.

Wyatt & Nolting, Archs., have completed plans for repair of west side of court-house which was damaged by fire. Proposals for the construction will be advertised for. $150,000 has been appropriated for the work.

The Franklin Square Hospital, Calhoun and Fayette Sts., has awarded contract to JOHN A. SHERIDAN CO., 321 North Holliday St., for alterations and additions to its present building. Herbert G. Crisp, Arch., 1[illegible]9 Calvert Bldg.

BALTIMORE, MD.—The Baltimore & Ohio Railroad Co. has awarded contract for the erection of its $2,000,000 office building at Charles and Baltimore Sts., to WELLS BROS. CO., 160 Fifth Ave., New York.

WASHINGTON, D. C.—RICHARDSON & BURGESS, Colorado Bldg., have been awarded contract for superstructure of new school for choir boys. Cost, $100,000.

Contract for erection of apartment house at 16th and M Sts., for American Security & Trust Co. has been let to RICHARDSON & BURGESS. Cost, $150,000.

WASHINGTON, D. C.—The contract for concrete foundations, pipe trenches and drainage for the new National Museum has been awarded to R. J. BEALL CONSTRUCTION CO., for $42,355.

DRAKES BRANCH, VA.—Bids will be received on May 15 by Bank of Chase City for the erection of brick bank building. W. C. West is Arch., 1103 East Main St., Richmond.

RICHMOND, VA.—Plans by Chas. K. Bryant, 201 South Tryon St., Charlotte, N. C., have been adopted for high school building. Cost, including grounds, $300,000.

NORFOLK, VA.—Parker & Thomas, Archs., Union Trust Bldg., Baltimore, Md., are preparing plans for office building for Mercantile Realty Co. Brick, fireproof, 10 stories, 50 × 100 ft.

ROANOKE, VA.—Plans are being prepared by Baldwin & Pennington, Archs., 311 North Charles St., Baltimore, Md., for a department store for Wyatt, Petten & Clay. Brick, 5 stories, 150 × 190 ft. Cost, $150,000.

MORGANTOWN, W. VA.—HAMILTON-IRVIN CO., Fairmont, W. Va., were awarded contract for a 6-story theater and business block, 120 × 126 ft., for Union Building Co., Morgantown. Cost, $100,000.

RALEIGH, N. C.—Bids will be received until May 23 for the erection of four-story addition to hospital building. Plans and specifications can be seen at office of W. P. Rose, Arch., Carolina Trust Bldg., Raleigh, after May 10.

COLUMBIA, S. C.—Plans and specifications for metal filing equipment for state house may be seen at offices of Engineering News, 220 Broadway, New York, and Monadnock Block, Chicago, Ill. Bids for above work are being taken until May 12, as advertised in Engineering News.

MOBILE, ALA.—Steps are being taken by Board of Revenue and Road Commission looking to the building of a new jail, new asylum, and enlargement of court-house. Rudolph Benz, 10 North Royal St., is Consult. Arch.

PRATTVILLE, ALA.—Bids are asked by Board of Revenue of Autauga County until May 10, 1 p. m., for the erection of a court-house. Plans at office of Bruce Architectural Co., Birmingham.

TALLADEGA, ALA.—Bids will be received until May 8 for building annex to Talladega County Court House, Talladega. Plans and specifications can be secured from H. K. Chapman, Arch., 627 Empire Bldg., Atlanta, Ga.

PLAQUEMINE, LA.—Bids are asked by Board of Police Jurors, Andrew H. Gay, Pres., until June 10 for erection of a court-house in Plaquemine. Andrew J. Bryan, Arch., 703 Hennen Bldg., New Orleans, La. (Advertised, Engineering News.)

NEW ORLEANS, LA.—The New Orleans Terminal Co. has let a contract for three warehouses to be erected on Claiborne Ave. Cost, $100,000. Work is to begin at once.

LOUISVILLE, KY.—Pilcher & Tachau, Archs., 32 East 28th St., New York, are completing plans for new public library building, and bids for same will soon be advertised for. Owen Tyler, Third Nat'l Bank, is Pres. Bd. of Trustees.

LOUISVILLE, KY. — CALDWELL & DRAKE are the contractors for new armory to be erected on Walnut St., the cost of which is estimated at $300,000. The roof will be of steel. Brinton B. Davis, 312 West Chestnut St., is Arch.

LORAIN, O.—The Lorain Savings & Trust Co. will erect a fireproof 5-story building, to cost $100,000. Ford & States are Archs.

CLEVELAND, O.—Levi T. Schofield, Arch., of Cleveland, has completed plans for the Y. W. C. A. building, to be erected at Prospect and Huntington Sts., and will soon take bids. Est. cost, $250,000. The steel work has been let.

YOUNGSTOWN, O.—General contract for erection of Immaculate Conception Parochial School was awarded to LOUIS ADAVASIO, mason contractor, for $48,000. Plumbing and isolated heating plant unlet. Rev. M. P. Kinkead, 1128 Oak St., is pastor.

RICHMOND, IND.—Contract for Reid mausoleum, to be erected in Earlham Cemetery, has been awarded to HARRISON GRANITE CO., 42 East 23d St., New York.

GOSHEN, IND.—The building of a new theater here is contemplated by Sanders, Neidig & Hay Co. The Commercial Exchange is interested.

INDIANAPOLIS, IND.—Plans for new Country Club building are completed and ready for bidders. Est. cost, $30,000. Bids will be received by Walter L. Millikan, Chn. Bldg. Com. Foltz & Parker, Union Trust Bldg., are Archs.

LAFAYETTE, IND.—Bids are asked by Board of Trustees of Indiana State Soldiers' Home until May 16 for construction of a 3-story building. Cost, $50,000. Geo. S. Brown, Arch., 306 Ferry St.

COLUMBUS, IND.—Bids for construction of a school building in East Columbus, on site of building destroyed by fire, will be received by David Stillinger, trustee of Columbus Twp.

INDIANAPOLIS, IND.—D. A. Bohlen, Arch., informs us that bids will be received about May 25 for construction of a church, 80 × 185 ft. for Meridan St. M. E. Church. Steel tubular heating boilers will be installed. Cost, $135,000, including $20,000 for equipment.

CRAWFORDSVILLE, IND.—Bids are asked by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., until June 5, for construction complete of U. S. post-office at this place. (Advertised, Engineering News.)

DETROIT, MICH.—Geo. D. Mason, Arch., 80 Griswold St., has let contract to WATERMAN & PRICE, of East Jordan, Mich., for construction of a warehouse at Charlevoix, Mich., for D. M. Ferry Co. Also let contract to HENRY VAN DER HART, of Kalamazoo, Mich., for construction of Jackson Savings Bank, which will cost $30,000.

PEKIN, ILL.—Bids are asked by James Knox Taylor, Supv. Arch., Washington, D. C., until May 24 for furnishing steam heating apparatus complete in place for post-office at Pekin.

KANKAKEE, ILL.—Bids are asked by James Knox Taylor, Supv. Arch., Washington, D. C., until May 29 for installation of low pressure heating apparatus at U. S. post-office at Kankakee.

Bids will be received at same place until May 26 for wiring for incandescent lighting, complete, at U. S. post-office, Kankakee.

MINNEAPOLIS, MINN.—The Boyd Transfer & Fuel Co. was granted a permit to erect a 5-story brick building at Lake St. and Fourth Ave. South. Cost, $70,000. J. & W. A. ELLIOTT, Lumber Exchange, contractors.

STILLWATER, MINN.—It is stated that bids are wanted for the erection of First National Bank Bldg. F. W. Kinney, of Minneapolis, is Arch.

FORT RILEY, KAN.—Bids are asked until May 25 for constructing post hospital building. Capt. Leon S. Roudiez, Q. M.

CHAMBERLAIN, S. DAK.—Bids are asked by F. E. Leupp, Comr. Indian Affairs, Washington, D. C., until May 10, 2 p. m., for constructing complete a brick hospital and frame employees' quarters, each with plumbing, heating, and acetylene gas piping, and extension of water and sewer systems at Chamberlain school.

FULTON, MO.—The Board of Managers of State Hospital for Insane No. 1 will receive bids up to May 9 for additions and changes in pipe work for power and heating plants, and addition of a vacuum system. M. F. Bell, Archt., Fulton; Wm. H. Bryan, Consult. Engr., St. Louis.

KANSAS CITY, MO.—Plans are being prepared by F. C. Gunn, Arch., 208 Grand Ave., for four hospital buildings for the city. Cost, $225,000. J. H. Neff is Mayor.

Howe, Hoit & Cutler, Archs., have plans and will take figures for remodeling and additions to department store, for Emery, Bird & Thayer, 11th St. and Grand Ave. Cost, $100,000.

NORMAN, OKLA.—Bids are asked by County Commissioners until May 29 for the erection of a court-house and jail on rental plan. Cost of both buildings not to exceed $40,000. F. O. Miller, County Clk.

DENVER, COLO. — Eldridge & White, Archs., Masonic Bldg., have completed plans for a 5-story hotel and club-house for United Commercial Travelers of America. Cost, about $100,000.

VANCOUVER BARRACKS, WASH.—Bids are asked by Constructing Quartermaster until May 27 for construction, including plumbing heating and electric wiring, of an administration building, band barracks, granary, hay shed, wagon shed, storehouse and bakery. (Advertised, Engineering News.)

SPOKANE, WASH.—John K. Dow, Arch., 518 Peyton Bldg., has prepared plans for hospital building for the state, to cost about $100,000.

SEATTLE, WASH.—Plans and specifications have been prepared by W. P. White, Arch., Washington Bldg., for a 10-story building, 60 × 120 ft., to be erected by I. E. Moses at cost of about $300,000.

SAN FRANCISCO, CAL.—Board of Education has accepted plans prepared by Board Public Works for Washington Grammar School. Est. cost, $119,000.

SAN LUIS OBISPO, CAL.—The city has voted to issue $30,000 worth of bonds to build a new high school.

WINNIPEG, MAN.—Tenders will be received until May 9 for the erection of a 16-room school building. Stewart Mulvey, Secy. Pub. School Board.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

ELLSWORTH, ME.—Grindstone Water Co. has awarded contract for laying water mains in town of Winter Harbor to HENRY TRACEY & SONS, Southwest Harbor, Me.

WATERVILLE, ME.—Following bids were received April 29 by Kennebec Water District for laying cast-iron water pipe and appurtenances: Boylston Construction Co., West Boylston, Mass., $36,697; Horace Purington Co., $46,698; Nichols-Magee Construction Co., $55,812. Leonard Metcalf, 14 Beacon St., Boston, Mass., is Engr. Itemized bids will be given under Contract Prices.

NORTHFIELD, VT.—We are informed that this village voted April 25 to purchase all rights of the Andrews Aqueduct Co., a company now supplying the village. The village contemplates the installation of an adequate gravity water supply during this season.

WINOOSKI, VT.—We are informed that supply of works of Winooski Aqueduct Co., which town recently voted to purchase, is to be increased by driving wells on property adjacent to present reservoir. F. O. Sinclair, Burlington, Vt., is Des. Engr.

ROCKLAND, MASS.—Referring to projected increase of storage supply for this place, we are informed that the water-works are owned jointly by the towns of Abington and Rockland. As the first named town voted for the project and the latter town voted against it, nothing will be done for the present.

LOCKPORT, N. Y.—Council has awarded contract to NIAGARA, LOCKPORT & ONTARIO POWER CO. for supplying city with water. According to press reports the contract calls for the construction of the proposed power canal before Dec. 31, 1907, and also specifies that a pumping station and filtration plant of a maximum capacity of 20,000,000 gallons be erected.

UTICA, N. Y.—Utica Consolidated Water Co. is stated to have awarded contract for laying about 13½ miles of pipe to JOHN MARSDEN, Utica.

ONEIDA, N. Y.—Bids are asked by Board Public Works until May 12 for construction of dam for proposed additional reservoir, for construction of pipe line, and for grubbing, clearing and fencing land to be used for reservoir. C. M. Ruggles, Cy. Clk. (Advertised, Engineering News.)

OSWEGO, N. Y.—Bids are asked by Department of Water, F. W. Ormsby, Secy., until May 18, for furnishing and installing two 2,500,000 gallon centrifugal pumps with necessary connections and suction pipes, for furnishing and installing two 250 HP. water wheels with necessary shafting, gears, pulleys, etc., and for furnishing necessary generators, motors, transformers, and other electrical equipment. All the above machinery is for the Lake water extension, the advertisements appearing in the May 4 and 11 issues of Engineering News.

COHOES, N. Y.—A. T. Kniffin, Supt. W.-W., writes us that Board Water Comrs., H. L. Shaver, Pres., will receive bids for one power pump and one centrifugal pump on May 8, each pump to be of 3,500,000 gallons capacity per 24 hours. Bidders will furnish their own plans and specifications.

SENECA FALLS, N. Y.—We are informed that this place has voted for municipal water-works to cost $110,000. Fred Isenman is Village Pres.

PERTH AMBOY, N. J.—Bids are asked by Water Board until 8 p. m., May 10, for laying 1,540 ft. of 6-in. water pipe. S. J. Mason is Engr.

PERTH AMBOY, N. J.—Water Board has awarded contract for sinking two or more 6-in. wells to H. H. BENNETT, Belmar, N. J.

BRADFORD, PA.—Bids are asked by Water Commissioners, J. B. Fox, Pres., until 4 p. m., May 6, for furnishing the following: 600 ft. 10-in., 1,000 ft. 8-in., and 2,134 ft. 6-in. cast iron pipe; 1,000 lbs. special castings; four 2-nozzle hydrants; one 10-in. double brass mounted gate valve; two 8-in. double brass mounted gate valves; six 6-in. double brass mounted gate valves; four 4-in. double brass mounted gate valves; 13 cast iron gate boxes. Bids are also asked for laying the above.

PITTSBURG, PA.—Baltimore & Ohio R. R. is stated to have awarded contract for construction of dam for 30,000,000 gallon reservoir near Griffin, Pa., to the PITTSBURG CONSTRUCTION CO., Bissell Block, Pittsburg, for about $52,000.

WARRENTON, VA.—Howard Murphy is now engaged on preliminary work for the early improvement and extension of the water-works storage reservoir capacity, and the introduction of additional supply.

SALEM, VA.—We are informed that this city will lay some gravity water mains, and will also install a 500,000 gallon pumping plant. Bids were opened May 1 for a new tower and tank. J. N. Ambler, Cy. Engr.

JACKSON, GA.—J. B. McCrary, Consult. Engr., Senobia, Ga., is to prepare plans and specifications for water-works and light plant for this place. Bonds will be voted after estimates are given.

MONTGOMERY, ALA.—Bids are asked by R. S. Williams, Cy. Treas., until May 15, for construction of steel standpipe. Bids are also asked until May 15 for constructing foundations for air compressor, pumping engine and making changes in pumping station building. Advertisements for both pieces of work appear in the Engineering News.

UTICA, MISS.—Town has awarded contract for sinking a deep well to PAUL FREEMAN, Hazlehurst, Miss.

UMBERTON, MISS.—Bids are asked by the Board of Aldermen until May 17 for the construction of a water-works system. H. A. Camp, Mayor; P. E. Williams, Town Clk.; R. C. Huston, Consult. Engr., Laurel. (Advertised, Engineering News.)

LOUISVILLE, KY.—Contracts have been let to GEO. W. GOSNELL and R. LEE FIGG for sinking wells in this city.

CINCINNATI, O.—Bids are asked by Commissioners Water-Works, Robert V. Foster, Clk., until June 2 for construction, delivery and erection of two vertical or horizontal compound pumping engines of capacity of 2,500,000 gallons each, and boilers to operate the engines.

MISHAWAKA, IND.—Dabney H. Maury, Peoria, Ill., has recently made preliminary report on water-works project here.

SULLIVAN, IND.—Preliminary report on water-works project at this place has been made by Dabney H. Maury, Peoria, Ill.

ALPENA, MICH.—Following contracts have been let for construction of water-works and electric light plant for this city, bids for doing which were received March 25: Steel influent, conduit, crib and well, THE MURRAY CO., Saginaw, Mich., $23,875; pipe laying, WM. H. CHISHOLM, Pittsburg, Pa.; furnishing cast iron pipe and specials, AMERICAN CAR & FOUNDRY CO., Detroit, Mich., $50,791; hydrants, LUDLOW VALVE MFG. CO.; valves, C. W. THOMAS, Detroit, Mich. The contracts for pumps and electrical appliances had not been awarded up to April 24. John H. Bloomfield, Bay City, Mich., is Engr.

CLINTON, MINN.—We are informed that this village will extend its water system at an estimated cost of $6,000. F. W. Watkins, Village Recdr.

NASHWAUK, MINN.—Municipal water-works are contemplated by this place; supply is to be from well. T. R. Dodson is Pres.

HOISINGTON, KAN.—Contract for constructing water-works here (bids received April 20) has been let to T. C. BROOKS & SONS, Jackson, Mich., for $16,318.

LOWER BRULE, S. DAK.—Following bids were received April 25 at Office of Indian Affairs, Washington, D. C., for material and labor for erecting water tank and tower at Lower Brule Agency: Des Moines Bridge & Iron Works, Des Moines, Ia., $3,148; A. Motschman, Chicago, Ill., $4,300; W. D. Lovell, Des Moines, Ia., $3,495.

MADISON, S. DAK.—F. F. Brinker, County Audr., writes that they are now open for bids for construction of an artesian well. An appropriation of $5,000 is available.

BILLINGS, MONT.—Bids are asked by the Engineer, U. S. Reclamation Service, Billings, until June 28, for construction of about 30 miles of canal, involving about 700,000 cu. yds. earthwork, some rock work and three tunnels, with concrete lining for rock cuts and tunnels, the work being a portion of a system for diversion of about 400 cu. ft. of water per second from Yellowstone River, at a point about ten miles east of Billings. (Advertised, Engineering News.)

BILLINGS, MONT.—Bids are asked by the Engineer U. S. Reclamation Service, Billings, until June 28, for construction of pumping station, concrete culverts, siphons, drops, etc., and furnishing two steel highway bridges, four steel sluice gates with stands and 120,000 lbs. steel bars for reinforcing purposes. The work is to be done along line of canal, east from Huntley, Mont. (Advertised, Engineering News.)

FORT BENTON, MONT.—Following bids were received by Town Council for construction of new water system which contemplates reservoir back of town: Western Mining Supply Co., $5,925; A. L. Lewis, $6,085; Henry Hagen, $6,254. Action was deferred until after May 1.

HUMANSVILLE, MO.—The general contract for water-works construction here (bids received April 27) was awarded to W. W. COOK & SON, Junction City, Kan., for $9,447; contract for steel tower and tank was awarded to the MEANS & FULTON IRON WORKS, Birmingham, Ala.

CASSVILLE, MO.—All bids received April 28 for water-works plant for this place were rejected, owing to their being higher than the appropriation. Bids will be asked for material at Cassville in about 30 days. W. D. Steele is Cy. Clk.; Burns & McDonnell, 500 Dwight Bldg., Kansas City, Mo., are Engrs.

ST. LOUIS, MO.—This city awarded following contracts April 24: Furnishing 3,900 tons cast iron pipe, U. S. CAST IRON PIPE & FOUNDRY CO., $103,325; 150 tons special castings, BESSEMER FOUNDRY & MACHINE CO., Bessemer, Ala., $8,040; 122 stock valves, C. W. THOMAS, Detroit, Mich., $6,314; fire plugs, KLUGER & HENGER MFG. CO., St. Louis, $4,652; laying 82,400 ft. water pipe, J. F. McMAHON, St. Louis, $26,493; constructing low service boiler and coal house, BUEHLER-COONEY CONSTRUCTION CO., St. Louis, $17,583.

NEW MADRID, MO.—Bids are asked by W. H. Copeland, Cy. Clk., until May 17, for furnishing and constructing water-works or parts thereof. Owen Ford, Engr., St. Louis, Mo. (Advertised, Engineering News.)

GRANBURY, TEX.—This place, G. W. Landers, Mayor, wants propositions on a system of water-works.

LONGVIEW, TEX.—The Mayor writes us that it will probably be 30 or 60 days before they are ready to purchase supplies, etc., for new city water-works, est. cost of which is $50,000.

PITTSBURG, TEX.—This town has let contract for water-works system to the TRINITY CONSTRUCTION CO., Dallas, Tex.; contracts for cast-iron pipe, CENTRAL FOUNDRY CO.; THE FAIRBANKS CO., for Fairbanks hydrants, valves and valve boxes. Griffin O'Niel, of Dallas, Tex., is Engr.

DENVER, COLO.—Bids were received April 10, at Denver office of U. S. Reclamation Service, for work in connection with the Belle Fourche, S. Dak., reclamation project, the contracts being awarded as follows: Diversion dam, regulator, etc., S. R. ROBINSON, St. Louis, Mo., $99,936; canal excavations, etc., WIDELL-FINLEY CO., Mankato, Minn., $107,250. Itemized bids for above work were given in our issue of April 20.

DENVER, COLO.—Bids are asked by the Supervising Engineer, U. S. Reclamation Service, Chamber of Commerce Bldg., Denver, until June 15, for construction of Pathfinder dam and auxiliary works, about 50 miles southwest of Casper, Wyo. (Advertised, Engineering News.)

PUYALLUP, WASH.—Mayor A. C. Utterback writes us that this city will vote some time in May on water-works system, to cost $42,000.

TACOMA, WASH.—Contract for supplying city with certain grades of water pipe has been awarded to WASHINGTON FOUNDRY CO., Tacoma.

WASCO, ORE.—Contract for construction of local water and sewer system has been let to MEARS & GOULD, Hood River, Ore. Specifications call for 200 ft. 12-in., 2,400 ft. 8-in., 2,900 ft. 10-in., and 7,326 ft. 6-in. machine wound stave pipe with two reservoirs holding about 200,000 gallons. Sewer specifications call for about one mile of pipe line.

PORTLAND, ORE.—Contract for furnishing city with 2,012 tons, 4 to 16-in. cast iron pipe and 120,000 lbs. special castings has been let to OREGON IRON & STEEL CO., Portland, for $71,976. Bids were opened April 12.

LOS ANGELES, CAL.—Bids are asked until 2 p. m., June 5, for construction of the Laguna dam and sluiceways, involving the excavation of about 282,000 cu. yds. earth, excavation of about 305,000 cu. yds. solid rock, placing of about 350,000 cu. yds. of solid rock in dam and masonry core walls, building about 27,150 cu. yds. of concrete, laying about 80,000 sq. yds. paving, and furnishing and driving about 53,000 lin. ft. of sheet-piling, for diversion of a part of Colorado River, about ten miles northeast of Yuma, Ariz. E. A. Hitchcock, Secy. Dept. of Interior, Washington, D. C. (Advertised, Engineering News.)

POINT RICHMOND, CAL. — Richmond Water Co. has awarded contract for building 1,000,000-gallon reservoir to E. B. & A. L. STONE, Oakland, Cal., for $8,265.

HAZEN, NEV.—Bids are asked by the Engineer, U. S. Reclamation Service, Hazen, until June 15, for construction of outlet and controlling works and bridge at Lake Tahoe, Cal., involving about 90,000 cu. yds. earthwork, 500 cu. yds. concrete, etc. (Advertised, Engineering News.)

PORTAGE LA PRAIRIE, MAN.—Contracts for water-works construction for this place have been let as follows: Pipe laying and excavating, HEINAULT & HEFFERMAN, Montreal, Que., $94,525; standpipe, MANITOBA IRON WORKS, Winnipeg, Man., $8,665; water tower foundation, WM. CARR and JOSEPH WOODNOR, $2,400; bids for machinery and boilers were submitted to Willis Chipman, Consult. Engr., Toronto, Ont., for a report.

TORONTO, ONT.—Bids are asked by Mayor Thomas Urquhart, Chn. Bd. of Control, until June 6, for construction of tunnel and shafts under Toronto Bay, between main pumping station at foot of John St. and Toronto Island. (Advertised, Engineering News.)

ST. CATHARINES, ONT.—Contract for three filters for pumping station has been let to CANADIAN IRON & FOUNDRY CO., for $7,463. Contract for 6-in. pipe was let to DENNIS MURPHY, Halifax, N. S.

TORONTO, ONT.—Contract for new pumping engine for high level station has been let to JOHN McDOUGAL CALEDONIAN IRON WORKS, LTD., Montreal, Que., for 6,000,000-gallon Holly type engine, with box girder frames; price, including boilers, $43,947.

HANTSPORT, N. S.—Contract for constructing water-works for this place (bids received April 15) is stated to have been let to W. J. MULHALL, Middleton, N. S., for $39,000.

BULLION, B. C.—We are informed that work on the 15 mile canal required to extend the Consolidated Cariboo Hydraulic Mining Co.'s water supply system to a source of permanent supply will not be commenced until 1906. The engineering work is now under way. J. B. Hobson, Bullion, B. C., is Mgr. Consolidated Cariboo Hydraulic Mining Co.

CALGARY, ALTA.—We are informed that the contract for all timber work in flumes, props, highway bridges, etc., on the main and secondary canals of the C. P. R. irrigation system near Calgary has been awarded to the BRITISH COLUMBIA GENERAL CONTRACT CO., Fairfield Bldg., Vancouver, B. C.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

EAST LONGMEADOW, MASS.—Board of Selectmen will receive bids until May 6, 1.30 p. m., for furnishing pipe and constructing about 1,100 ft. of surface water sewer. Plans and specifications may be seen at office of Durkee, White & Towne, of Springfield. Arthur G. Crane is Town Clk.

LAWRENCE, MASS.—The Board of Aldermen is stated to have passed an ordinance providing for an appropriation of $25,000 to complete Shanty Pond sewer. A. D. Marble is Cy. Engr.

EAST BOSTON, MASS.—FALVEY & KELLEY, 13 Centre Ave., Dorchester, Mass., were awarded contract April 28 for laying pipe sewer in Cottage, Gove and Frankfort Sts., East Boston, for $5,866, for the East Boston Co., 68 Devonshire St., Boston.

SALEM, MASS.—The Sewerage Commission has awarded contract to construct concrete sewer of Sec. 5 of the North River Trunk Sewer from Flint St. to Grove St., 2,760 ft., to M. McDONOUGH, of Swampscott, Mass., for about $10,000.

PAWTUCKET, R. I.—Resolutions making appropriations amounting to $2,500 for sewer construction were approved by Mayor Higgins. Geo. A. Carpenter is Cy. Engr.

NEW BRITAIN, CONN.—Contract will be let by the city this month for sewer work to cost from $50,000 to $100,000. Wm. H. Cadwell, 213 Main St., is Engr.

LOCKPORT, N. Y.—Bids will be advertised for sewer on Nicholas St.; also sewer and water pipe in Allen St. Address E. S. Bennett, Cy. Clk.

BIRMINGHAM, N. Y.—Common Council has declared its intention to make extensive repairs to Exchange St. trunk sewer and to construct sewers in portions of Court, Chenango, Front and Elizabeth Sts. and Maiden Lane. D. C. Hewick is Cy. Clk.

AMSTERDAM, N. Y.—Bids are asked until May 17 for 2,300 ft. of 8 and 10-in. pipe sewer extension. F. E. Crane, Cy. Engr.

LESTERSHIRE, N. Y.—Bids are asked by Board of Trustees, J. F. Chambers, Pres., until May 12 for construction of about three miles of pipe sewers with manholes, lampholes, etc. Knight & Hopkins, Engrs., Rome, N. Y.; J. E. Hill, Village Clk. (Advertised, Engineering News.)

WEST ORANGE, N. J.—The town of West Orange awarded contract for construction of Section 6 of its sanitary sewerage system to CHARLES IPPOLITO, of Orange. The same contractor was also awarded contract for construction of chamber for air lift plant. The contract for the installation of air lift machinery, consisting of four automatic ejectors, two air compressors, direct connected with electric motors and a receiving tank, was awarded to THE ELLSI CO., of New York. This work has been held up for several months pending an effort to effect an exchange of capacity in outlet sewers between Orange and West Orange, which would enable both towns to dispense with their respective pumping stations for a district in each municipality which cannot drain through its own gravity outlet. Alexander Potter, Consult. Engr., 143 Liberty St., New York, is in charge.

FREEPORT, PA.—Bids are asked by Burgess and Borough Council until May 15 for sewering, grading, curbing and paving of High, Buffalo, Franklin and Third Sts. G. B. Findlay, Borough Engr. (Advertised, Engineering News.)

MOUNT CARMEL, PA.—Bids are asked by Borough Council until May 18 for construction of a system of sewers. John F. Gibbons, Chn. Sewer Com.; T. Chalkley Hatton, Consult. Engr., Wilmington, Del. (Advertised, Engineering News.)

NEWCASTLE, PA.—Bids are asked by A. E. Rhodes, Cy. Clk., until May 8, ... m., for construction of Grant St. sanitary sewer.

NORRISTOWN, PA.—A proposition to construct 29 miles of sanitary sewer was introduced in Town Council and favorably considered. S. C. Corson is Boro. Engr.

WILMINGTON, DEL.—Bids will be received by Street and Sewer Department until May 9 for furnishing supplies during the year beginning on June 1. The material required will be brick, stone, sand, etc., necessary for paving, and also brick, pipe, cement, etc., to be used in connection with sewer building.

WASHINGTON, D. C.—See under Light and Power plants.

SALEM, VA.—J. N. Ambler, Cy. Engr., writes us that bids will be opened in about two weeks for constructing 1,400 ft. 8-in. sewers.

NEWPORT NEWS, VA.—The city contemplates expending $15,000 in approvements, including the construction of storm-water sewer.

DARLINGTON, S. C.—J. L. Ludlow, Consult. Engr., Winston, N. C., informs us that the Darlington sewerage plans are completed and bids for construction will probably soon be invited.

DUBLIN, GA.—A. H. Olmsted, Engr., Empire Bldg., Atlanta, has completed plans for sewer work for Dublin.

AUGUSTA, GA.—The contract for completion of Hurnkett Springs Road brick sewer was awarded to T. O. BROWN, the lowest bidder, for $5,000.

ST. AUGUSTINE, FLA.—At a recent meeting of Board of Trade plans for a system of sewerage costing $94,000 were considered. The Board approved the plans submitted and will bring the matter before City Council for immediate consideration. Address the Mayor for information.

HOPKINSVILLE, KY.—The franchise to build sewer system in this city was offered for sale April 23 by Robt. West, Cy. Clk., and was purchased by R. C. Hardwick and others, of this city.

NEW ORLEANS, LA.—BLACK & LAIRD, of Birmingham, Ala., have secured the contract for 40 of the 62 miles of sewer to be constructed in New Orleans.

ELYRIA, O.—The Walter P. Rice Engineering Co., of Cleveland, has completed plans for sewer system at Elyria.

YOUNGSTOWN, O.—Bids are asked by Board Public Service until May 9 for construction of sewer in Glenwood Ave. G. T. Prosser, Cy. Clk.

LONDON, O.—Council has passed an ordinance instructing John Byers, Cy. Clk., to at once advertise for necessary material and construction of sanitary sewer and disposal works. Est. cost, $56,000.

FINDLAY, O.—J. W. Riegel, Cy. Engr., will receive bids this spring for construction of sewers in Washington, Cory and Walnut Sts.

SOUTH BROOKLYN, O.—This village will advertise for bids this spring for construction of vitrified brick and tile sewers, to cost $25,000. Evers Engineering Co., Engr., 237 Arcade Bldg., Cleveland.

LAKEWOOD, O.—Bids will be advertised for in May or June for vitrified brick and tile sewers, to cost $100,000. Evers Engineering Co., Engr.

FINDLAY, O.—Bids are asked by Board Public Service until May 9, noon, for constructing a sewer in Tiffin Ave. J. C. Edie, Clk.

YOUNGSTOWN, O.—Resolutions to construct sewers in Fall Ave., Erie and Pyatt Sts., and for a number of sidewalks have passed. F. M. Lillie is Cy. Engr.

FRANKLIN, IND.—Otis B. Sellers, City Engr., writes that it is proposed to construct a sewerage system at a cost of $50,000. Time for receiving bids not yet decided upon.

MOORESVILLE, IND.—It is stated that a sewerage system will be constructed here, to be about 3½ miles in length.

MONTICELLO, IND.—Bids are asked by Board of Trustees until May 6 for constructing sewer No. 24. W. J. Gridley, Clk.

ST. JOSEPH, MICH.—THOS. J. PETER CO., 135 Adams St., Chicago, Ill., were awarded contract, at $7,500, for construction of two outlet sewers here.

MANISTIQUE, MICH. — Board Public Works is asking for bids for installing a sewerage system. G. W. Sturtevant, Consult. Engr., Fisher Bldg., Chicago, Ill.

WYANDOTTE, MICH.—The Riggs & Sherman Co., Engrs., Toledo, O., inform us that 10 to 15 miles of sewer will probably be built in Wyandotte this year.

MOLINE, ILL.—The Board Local Improvements is reported to have under consideration the construction of a sewerage system in the Fifth Ward; probable cost of work, $45,000.

EAST ST. LOUIS, ILL.—We are informed that the city will soon advertise for bids for a sewer system to cost about $75,000. W. J. Crocken, Cy. Engr.

GREEN BAY, WIS.—Bids are asked by committee on sewers and plumbing of Common Council until May 16 for construction of several vitrified pipe sewers.

KENOSHA, WIS.—Bids are asked by Street Assessment Committee until May 15 for construction of following sewers: 950 ft. of 42-in. double ring brick sewer; 50 ft. of 42-in. iron outlet with protection; 970 ft. of 18-in. pipe sewer; 2,150 ft. of 15-in. pipe sewer; 11,498 ft. of 12-in. pipe sewer; 3,469 ft. of 10-in. pipe sewer; 84 manholes; 30 catch basins. Specifications at office of City Engineer.

MUSCATINE, IA.—A large extension to Papoose Creek sewer will be built.

DUBUQUE, IA.—The contract for constructing Bee Branch sewer from Leman St. to Millville Road was awarded to O'FARRELL & McNAMARA.

DES MOINES, IA.—$17,000 ... appropriated in the annual budget for construction of Ingersoll sewer. John W. ... is Cy. Engr.

ST. PAUL, MINN.—L. E. ... Engr., has sent estimates to ... Works for a number of sewers.

NORTH PLATTE, NEB.—Bids are asked by William Yost, Cy. Clk., until May 25 for construction of main sewers. Andrew Rosewater, Engr., Omaha. (Advertised, Engineering News.)

OMAHA, NEB.—Andrew Rosewater, Cy. Engr., has filed with City Clerk ... for proposed sewer system, to cost also ... $25,000.

NEVADA, MO.—S. L. Higg..., Cy. Clk., writes that it is proposed to construct a sewerage system to cost $10,000. ... M. Clark is Cy. Engr.

BLACKWELL, OKLA.—City Council has adopted plans of Burns & McDonnell, Engrs., Kansas City, Mo., for sanitary sewer system.

PUYALLUP, WASH.—We are informed that bids will be received until May 19 for construction of sewer system, ... cost, $27,000. A. C. Utterback, Mayor. Coale & Dunn, Engrs., Seattle.

SAN PEDRO, CAL.—Contract ... outfall sewer has been let to RAMISH & MARSH, of Los Angeles, for $18,000.

SAN FRANCISCO, CAL.—We are informed that specifications have been prepared and bids will soon be received for reinforced concrete sewer on Mission St., to cost about $15,000; also for iron sewer pipe on ... St., at a cost of $14,000.

SANTA ROSA, CAL.—Mayor J. ... Overton has approved ordinance providing for the issuance of $72,000 bonds for the improvement of sewer system. C. D. Clawson, Clk.

LOS ANGELES, CAL.—H. F. Stafford, Cy. Engr., has informed the Council that an additional bond issue of $250,000 will be necessary to complete outfall sewer and its connections.

BOLINOS, CAL.—The citizens of Bolinos voted favorable to the issuance of bonds for construction af a gravity sewer system.

PASADENA, CAL.—Resolution ordering a sewer on Summit Ave., Penn and Montana Sts., was adopted by Council.

SALT LAKE CITY, UTAH.—Contract for construction of such pipe sewers as may be ordered by City Council during 1905 (bids received April 10) has been awarded to P. P. FORD, for $64,627. Geo. W. Riter, Cy. Engr. Successful bid will be found under Contract Prices.

BOISE, IDAHO.—We are informed that a large amount of lateral sewer work is contemplated by city. Godfrey Sperling, Cy. Engr.

GALT, ONT.—W. M. Davis has been instructed to prepare plans for proposed lateral sewers to be built here this spring. Jos. McCartney is Town Clk.

GARBAGE DISPOSAL.

LYNN, MASS.—Contract for street sprinkling for five years has been let to EVERETT S. PEVEAR, Lynn, for $110,000.

SARATOGA SPRINGS, N. Y.—Contract for street sprinkling for three-year term has been let to WM. H. GAILOR, for $6,130 per year.

WASHINGTON, D. C.—Following bids were received April 28 by District Commissioners for collection and disposal of ashes, garbage, dead animals, etc.: Garbage collection—S. B. Bayly, $69,000 per year. Garbage disposal—Washington Fertilizer Co., $25,200 for one year, $21,000 per year for three-year contract and $18,000 per year for five-year contract; Frank H. Macfarland, Philadelphia, Pa., $48,000 per year under five-year contract. Collect and dispose of garbage—Washington Fertilizer Co., $80,800 for one year, $78,800 per year for three-year contract and $78,400 under a five-year contract. For a daily and tri-weekly service instead of a tri-weekly and bi-weekly service outside the fire limits, the company added $10,500 to each proposal; Frank H. Macfarland, $108,000 under a five-year contract. Collect and dispose of garbage and dead animals—Washington Fertilizer Co., $84,300 per year under two-year contract, $83,300 per year under three-year contract, and $81,900 under five-year contract; the company offered to dispose of garbage and dead animals under a one-year contract for $25,200; under two-year contract, for $21,000 and under five-year contract for $18,000. Dispose of dead animals alone—Patrick Mann, $1,860, for one year, $1,821 per year under three-year contract, and $1,756 under five-year contract. Collect and dispose of dead animals—Patrick Mann, $2,485 for one year, $2,435 per year under two-year contract, and $2,361 for five-year contract. Collect and dispose of night soil—R. V. Rust, $22,000 per year; Warner Stutler & M. R. Raedy, $16,800 for one year, $16,700 per year for two years, $16,600 for three years, $16,500 for five years; a deduction of $1,000 would be made by latter firm if allowed to dispose of material within the District. Collect miscellaneous refuse—S. P. Bayly, $22,000 per year; Stutler & Raedy, $26,000 for one year, $26,400 per year under two-year contract, $26,200 under three-year contract and $26,000 under five-year contract. Disposal of miscellaneous refuse—S. P. Bayly, $2,500 per year, and under another contract to collect and dispose of the material for $27,000 for one year; $26,800 per annum under three-year contract, and $26,600 under five-year contract. Collect and dispose of ashes—S. P. Bayly, $57,000 per annum under one, three, or five-year contracts; Stutler & Raedy, $71,000 for one year; $68,000 per annum for three years, and $67,000 per annum for five years.

DAVENPORT, IA.—We are informed that this city is getting data on garbage disposal plant with intention of having one by next spring. Harry W. Phillips is Mayor.

KANSAS CITY, MO.—Board Public Works is reported to have decided to purchase 12 street flushing machines. W. C. Brooks is Supt. St. Dept.

SACRAMENTO, CAL.—Bids are asked by M. J. Desmond, Cy. Clk., until 10 a. m., May 8, for a garbage disposal plant.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

MILFORD, MASS.—STONE & FARRINGTON, of [illegible]tham, were awarded contract for constructing section of highway in Milford, for $[illegible].

BRIDGEWATER, MASS.—Contract for constructing section of highway in Bridgewater was awarded to WM. SHEA & SON, of Quincy, for $3.[illegible].

WATERBURY, CONN.—Bids are asked by Board Public Works until May 9 for grading Walnut Ave. and Silver St. and building a bank wall on Silver St. R. A. Cairns, Cy. Engr.

NEW YORK, N. Y.—Bids are asked by Geo. E. Best, Bridge Comr., until May 11 for making repairs to asphalt pavement on bridges over Harlem River and in Borough of Manhattan during year 1905.

SYRACUSE, N. Y.—The Board of Contract and Supply received the following bids for paving Highland Ave. with asphalt: Warner-Quinlan Asphalt Co., $24,166 with brick between street railway tracks and $25,139 with sand stone blocks between tracks; F. J. Baker, $24,173 and $25,147; Central City Paving Co., $24,367 and $25,341. The following proposals were received for paving Fulton St.: Asphalt, Warner-Quinlan Asphalt Co., $11,961; F. J. Baker, $11,921; Central City Paving Co., $11,809; brick, F. J. Baker, $12,360; John W. Bustin, $12,274; Troy Public Works Co., $11,324; Central City Paving Co., $12,288; Thos. Marnell, $11,194.

OSWEGO, N. Y.—Bids are asked until May 27 for constructing roads and walks at Fort Ontario. W. M. Coulling, Q. M. U. S. A. (Advertised, Engineering News.)

ELMIRA, N. Y.—It is stated that bids will be received by Board Public Works on May 10 for paving and curbing on Clinton St. F. Leach, Cy. Engr.

WELLSVILLE, N. Y.—Specifications on file in office of Engineering News, 220 Broadway, New York, for grading and paving South Main St., as advertised in Engineering News. Bids to be opened May 9.

ELMIRA, N. Y.—It is stated that bids will be received by Board Public Works until May 10 for curbing on Clinton St. Frederick Leach is Cy. Engr.

BINGHAMTON, N. Y.—S. M. Baird, Cy. Engr., is preparing plans and specifications for new brick pavement, which is to be laid on Court St., from Liberty St. to railroad bridges.

NEW YORK, N. Y.—Bids are asked by John F. Ahearn, Boro. Pres., until May 10 for regulating and paving with asphalt portions of various streets.

BELLEVILLE, N. J.—The contract for furnishing and delivering broken stone for repairing roads in township was awarded to FRANCIS MARLEY, of Paterson.

Ordinances were passed on second reading for improvements to sidewalks on a number of streets.

HARRISON, N. J.—Worthington Ave. will probably be paved with bitulithic.

TRENTON, N. J.—Bids are asked by Compt. [illegible] until May 16 for paving of Monmouth St. with sheet asphaltum on a concrete base. Harry B. Salter, Cy. Clk.

NEWARK, N. J.—Bids are asked by Committee on Roads and Assessments of Board of chosen Freeholders until May 8, 2 P. M., for delivering broken stone and dust in various avenues. Wallace Ougheltree, Chn.

EDGEWOOD, PA.—Bids are asked by Geo. W. Schuster, Boro. Engr., until May 8 for grading, curbing and paving a portion of Locust St.

YORK, PA.—Bids are asked by Highway Commissioner until May 11 for paving about 8,840 sq. yds. Henry S. Wallack, Chn.

NEWCASTLE, PA.—Bids are asked by A. E. Rhodes, Cy. Clk., until May 8, 8 p. m., for grading of Blakely Ave.

FREEPORT, PA.—See under sewers.

SPANGLER, PA.—The Town Council will issue $10,000 in bonds for street improvements.

TOWSON, MD.—Bids are asked by Highway Commissioners until May 11 for improvement of Wilkens Ave. H. G. Shirley, Rds. Engr.

HAGERSTOWN, MD.—It is stated that the city will pave three streets this summer with vitrified brick. J. O. Beard, Cy. Clk.

WASHINGTON, D. C.—Bids are asked by District Commissioners until May 20 for grading and regulating suburban streets and avenues. (Advertised, Engineering News.)

RICHMOND, VA.—Bids are asked by Capt. A. W. Butt, Q. M., U. S. A., Washington, D. C., until May 19 for making repairs to roadway to Richmond National Cemetery.

SALEM, VA.—J. N. Ambler, Cy. Engr., informs us that the city will pave about 1,600 sq. yds. with vitrified brick. Work to be done by the city.

GADSDEN, ALA.—An election will be held here June 5 to decide the question of issuing $120,000 in bonds for sewerage and street paving. The Mayor can give information.

MERIDEN, MISS.—Plans and specifications are now being prepared for new paving and contracts will be let in about 30 days. Waldo G. Myers is Engr.

JACKSON, TENN.—The county will issue $1[illegible],000 additional bonds for road work. County Clerk can give information.

DAYTON, O.—It is stated that bids will be received by C. A. Zellers, Cy. Clk., until May 22 for paving with vitrified block Third, Fourth and Mahoning Sts. F. M. Turner, Cy. Engr.

PERRYSBURG, O.—We are informed that contract for grading, paving, etc., on Front St., for a length of 1½ miles and a width of 12 ft., has been let to AZOR THURSTON, Grand Rapids, O. Bids were received April 17 by T. M. Franey, Village Clk.

MARIETTA, O.—The Council has decided on the construction of a large number of sidewalks, and has also decided to build a sanitary sewer and drain in the fifth sewer district.

MARYSVILLE, O.—The Village Clerk will invite bids for paving of North and South Court Sts. on May 26.

The Council has authorized J. C. Kennedy, Vil. Engr., for regrading and macadamizing East Fourth St., and for laying sidewalks on Orchard St.

FAYETTE, O.—The village has voted to pave a number of streets this summer.

WYOMING, O.—Bids will be received by W. A. Clark, Vil. Clk., until May 22 for macadamizing and grading Elm St., Springfield and Wentworth Aves.

TOLEDO, O.—Bids are asked by Harry S. Jones, Secy. Bd. Pub. Serv., until May 11 for paving on Orange and Ontario Sts. Frank I. Consaul is Ch. Engr.

BARBERTON, O.—The contract for paving of Fourth St., Hopocan and Baird Aves., was awarded to PAUL & HENRY, of Barberton. Est. cost, $27,000.

FINDLAY, O.—Bids are asked by Board Public Service until May 9 for paving Franklin Ave. with vitrified brick. J. W. S. Riegle, Cy. Engr.

CINCINNATI, O.—We are informed that the LOUIS DRACH CONSTRUCTION CO., of Cincinnati, was awarded contract April 24 for macadamizing Second Ave., for $5,944.

The following bids were received by Board Public Service April 26 for improving Smith St., requiring about 3,500 sq. yds. of granite paving, and 2,200 lin. ft. of granite curb: E. S. Gleason, $14,346; Quill & Poos, $13 0[illegible]; Kirchner Construction Co., $13,644; Wm. Fogarty, $13,690; Wm. Heffron Construction Co., $15,024; Henkel & Sullivan, $13,052, all of Cincinnati.

G. S. Gleason & Co., of Cincinnati, were lowest bidders, April 26, for paving Wise Alley with brick, at $3,298.

GRAND RAPIDS, MICH.—Board Public Works awarded the following contracts for street paving improvements: Fuller St., KLOOTE & VANDERVEEN, $6,310; Sinclair St., JAMES McDERMOTT & SON, $4,844; B St., GILNER & SCHNEIDER, $2,490.

TRAVERSE CITY, MICH.—Contract to pave six blocks on Front St. with brick was awarded by City Council to JOHN SCANLON, of Saginaw, for $38,212.

EAST ST. LOUIS, ILL.—Contract for paving with brick on Second St. has been awarded to M. J. KEELEY, East St. Louis, for $24,321. Bids were opened April 29.

RACINE, WIS.—Board Public Works awarded contract for paving of State St. with asphalt, approximately 13,387 sq. yds.; also 5,650 lin. ft. combined concrete curb and gutter, to BARBER ASPHALT PAVING CO.

LA CROSSE, WIS.—Council has voted $15,000 bonds for street improvements.

MILWAUKEE, WIS.—Jackson St. will be paved with bituminous macadam from Martin to Oneida St., and with brick from Oneida to Wisconsin. Brady St. will be paved with bituminous macadam from Farwell to Prospect Aves. Chas. J. Poetsch is Chn. Bd. Pub. Wks.

RUTLAND, IA.—Bids are asked by E. A. Cook, Clk., Trustees Rutland Twp., until May 13 for grading roads.

WATERLOO, IA.—We are informed that contract for 64,000 sq. yds. of paving with asphalt, bids for doing which were opened April 17, was let to the BARBER ASPHALT PAVING CO. We are also informed that on May 3d the City Council was to consider a resolution of necessity for paving one block on Sixth St., one block on Fifth St., one block on Mulberry St., and the Melan arch bridge with No. 1 repressed brick block, on Portland cement concrete foundation. There will be approximately 8,000 sq. yds. in this contract. C. T. Wilson is Cy. Engr.

DULUTH, MINN.—The following bids were received April 22 by Board Public Works for paving First St.: Sheet asphalt—Barber Asphalt Paving Co., $36,593; Geo. C. Warren, $38,254; P. McDonnell, $40,314. Bitumen—P. McDonnell, $29,319; Fred A. Mallatte, Geneva, N. Y., $32,427; Geo. R. King, $35,394. Sandstone blocks—P. McDonnell, $38,395; Geo. R. King, $41,827; Sang & Preston, $43,457. Creosote blocks—P. McDonnell, 3 in., $38,660, 4 in., $42,656; Geo. R. King, $41,947 and $46,743; Sang & Preston, $46,814 and $51,929.

MINNEAPOLIS, MINN.—Ellis R. Dutton, Ass't Cy. Engr., writes us that the contract for 30,000 sq. yds. of creosoted wood blocks was awarded to KETTLE RIVER QUARRIES CO., at $1.49 per sq. yd.

ST. PAUL, MINN.—Bids were received April 18 by County Commissioners for 3¼ miles of macadam road, as follows, for the entire contract: James Forrestal Co., Pioneer Press Bldg., $22,540; J. Thornton & Co., $20,527; P. Ryan, $24,928; W. J. PRENDERGAST, $20,175, awarded contract.

HUTCHINSON, KAN.—T. G. Elbury, Cy. Engr., informs us that bids will be received in about 20 or 30 days for nine blocks of brick paving on Main St.

ST. LOUIS, MO.—Bids are asked by Board Public Improvement until May 9 for grading and paving on portions of 11 streets with vitrified brick, four streets with bituminous macadam, and Theodosia Ave. with asphalt. Hiram Phillips, Pres.

DENVER, COLO.—Bids were opened April 21 by Board Public Works for grading, curbing and surfacing West Side Improvement District No. 1 as follows: Dillon Stone Co., $169,534; Colorado Co., $162,029; R. A. Young, $172,235; J. Fred Roberts, $156,467; Denver & Pueblo Const. Co., $157,636.

BELLINGHAM, WASH.—It is stated that bids will soon be received for paving a portion of Elk St. with asphalt. Est. cost, $30,000.

SEATTLE, WASH.—Contract for cement paving, bids for which were received April 22 by Board Public Works, is stated to have been let to FRANK & BRANDON, Seattle, for $39,695. Successful bid is given under Contract Prices.

EVERETT, WASH.—Bids are asked by County Commissioners until May 8, 1 p. m., for grading one half mile of H. C. Hunter Road.

SEATTLE, WASH.—Bids are asked by Board Public Works until May 13 for laying concrete walks on Wallingford Ave. and other streets; est. cost, $53,900. R. H. Thomson, Cy. Engr.

SACRAMENTO, CAL.—E. B. & A. L. STONE CO., 900 Broadway, Oakland, has been awarded contract for macadamizing roadway of H St., and for constructing concrete gutters. M. J. Desmond is Cy. Clk.

LOS ANGELES, CAL.—Central Ave., about 26,277 ft., is to be paved. Harry F. Stafford is Cy. Engr.

REDLANDS, CAL.—Cajon St. will be paved with asphalt.

SAN FRANCISCO, CAL.—Board of Works has recommended to Supervisors the paving with asphalt of Valencia St., at an estimate cost of $58,275. Thos. P. Woodward is Cy. Engr.

SALT LAKE CITY, UTAH.—The contract for construction of cement sidewalks during the year was awarded by Board Public Works April 12 to UTAH FIREPROOFING CO. for $29,230.

SALT LAKE CITY, UTAH.—Contract for constructing such cement sidewalks as may be ordered by City Council during 1905 (bids received April 10) has been awarded to UTAH FIREPROOFING CO., for $29,230. Geo. W. Ritter, Cy. Engr. Itemized successful bid is given under Contract Prices.

LEWISTON, IDAHO.—Bids are asked by J. R. Lydon, County Clk., until May 10, 2 p. m., for construction of part of L. E. Marsh- and Road. Improvement includes a bridge 16 ft. long. E. D. Briggs, County Surv.

BOISE, IDAHO.—We are informed that a large amount of paving, curbing and laying of sidewalks is contemplated by the city. Godfrey Sperling, Cy. Engr.

MONTREAL, QUE.—It is stated that the Board of Aldermen have decided to spend $72,842 for sidewalks, grading and macadamizing. John R. Barlow is Cy. Surv.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

MARBLEHEAD, MASS.—Burgess & Packard, boat builders, Salem, will erect a boat shop, 100 × 40 ft., in Marblehead.

NEW YORK, N. Y.—Ralph S. Townsend, Arch., 29 East 19th St., has plans for adding two stories, new partitions, etc., in factory, at 211 East 94th St., owned by Chas. Zoller Co., 12 Water St. Cost, $10,000.

BROOKLYN, N. Y.—J. S. Kennedy, Arch., 44 Court St., has plans for a brick extension to factory on Rodney St., owned by E. Johnson, 8 Polhemus Place. Cost, $18,000.

BROOKLYN, N. Y.—We are informed that the MILLER-COLLINS CO., 1133 Broadway, New York, recently incorporated by S. Fischer Miller and D. C. Newman Collins, have been awarded the general contract for new factory building of Hanan & Son, in Brooklyn. H. S. Kissam, Arch., 156 Fifth Ave., New York. Building to be five stories, basement and sub-basement, 200 × 100 ft., of reinforced steel concrete construction, brick exterior walls. The Miller-Collins Co. is in the market for prices on crushed stone, Portland cement, sand, common and front brick, blue stone, door and window sills, paving blocks, Welsh quarry tile, ornamental iron work, railings, wheel guards, sidewalk lift, patent lights, slag roofing, Phoenix blocks, safety treads, sprinkler tanks, copper and galvanized iron skylights, stacks, rolling doors, metal sash, underwriters' fire doors, carpentry work, marble and tile, hardware, cold-water painting, cartage, etc. Approximate cost of the factory, $175,000.

JERSEY CITY, N. J.—John A. Resch, Arch., 170 Lexington Ave., has plans for extensive alterations to factory, at 192 Lembeck Ave., for F. M. Van Biaricon.

CAMDEN, N. J.—Isaac Pursell, Arch., 119 South Fourth St., Philadelphia, Pa., has plans ready for bids for a three-story soap factory building, 45 × 150 ft., at Camden, for Dobbins Soap Mfg. Co.

BAYONNE, N. J.—Plans have been prepared by Armand Schule, Arch., 10 West 14th St., for Mesereau Metal Bed Co., 281 Johnson Ave., Jersey City, for a four-story brick factory on Avenue C, Bayonne. Cost, $20,000.

SCRANTON, PA.—The Lackawanna Mills have invited bids for an addition to their mills.

TEMPLE, PA.—Geo. L. Gerhard, Arch., 619 Penn St., Reading, has completed plans for shops and foundry for Temple Ornamental Iron Works, of Reading.

ALLENTOWN, PA.—RITTER & SMITH, Jefferson and Gordon Sts., have been awarded contract by Jacoby & Weishampel, Archs., Commonwealth Bldg., for silk mill, to be erected at Third and Oak Sts., for Phoenix Silk Co., of Paterson, N. J. Cost, $100,000.

LITITZ, PA.—The contract to build factory for Consumers Box, Board & Paper Co. has been awarded to S. F. GLATFELTER, of York, Pa. Brick, 3 stories, 304 × 84 ft.

PHILADELPHIA, PA.—The Lacony File Works, Lacony, want bids for one-story factory building, 20 × 100 ft.

A factory building, 70 × 100 ft., will be erected at 822 North American St., by Frank Rosaito, 222 South Eighth St.

Stearns & Castor, Archs., Stephen Girard Bldg., have plans ready for bids for alterations and additions to factory building at Ambler and Abagail Sts., for Weimer Bros. Brick, 2 stories, 50 × 110 ft.

J. F. Stricker & Son, Archs., 1421 Chestnut St., have invited bids for an addition to factory at Third and Huntingdon Sts., for H. C. Aberle & Co.

Contract for factory at 129 Marter St. has been awarded to WM. STEELE & SONS, 16th and Arch Sts.

BALTIMORE, MD.—The Booth Packing Co., Wolfe and Lancaster Sts., has awarded contract to H. C. SMYSER, 425 North High St., for construction of an additional story to its plant.

Beecher, Friz & Gregg, Archs., have been commissioned by Mar-Del Mobile Co., 617 West Pratt St., to prepare plans for a garage. Brick, 2 stories, 170 × 110 ft.

The Guth Chocolate Co., North Charles St., has bought property on Pennsylvania Ave. and will convert same into a candy factory. Cost, $10,000.

Morris & Clifford, Archs., Builders' Exchange, have plans for a three-story factory building, 40 × 175 ft., at 27 South Frederick St., for Laurence Ellerbrock, coppersmith. Cost, $30,000.

Contract for factory for Iron Clad Mfg. Co. has been awarded to THOS. B. STANSFIELD, 109 Clay St. Brick, 3 stories, 60 × 105 ft.

WASHINGTON, D. C.—Plans are being prepared by Brown & Brown, Archs., for the erection of a printing plant and warehouse for Andrew Paper Co. Cost, about $43,000.

J. D. Frazee, of Frazee Laundry Co., who recently purchased Potomac Laundry and consolidated it with Frazee Laundry, has purchased site on which to erect three-story building, 136 × 147 ft.

NORFOLK, VA.—The D. A. Billings Co., Inc., 222 Atlantic Bldg., Norfolk, wants prices on woodworking machinery.

RICHMOND, VA.—The Gordon Metal Co., 1426 East Cary St., will erect a factory and office building. Howard Gordon is Secy.

CUMBERLAND, N. C.—It is stated that the J. Frederic Houston & Co., 704 Provident Bldg., Philadelphia, Pa., will increase capacity of their cotton mill here.

ENFIELD, N. C.—Jos. Meyer contemplates establishing plant for manufacture of suspenders.

COLUMBUS, GA.—Bids will be received by Columbus Candy Co., until May 7 for three-story candy factory, 43 × 120 ft. T. W. Smith & Co., Garrard Bldg., are Archs.

GROVANIA, GA.—The plant of Grovania Cotton Oil Co., which was burned last summer, will be rebuilt at once. Contract for buildings has been let to KITCHENS BROS., of Cordele, Ga.

JACKSONVILLE, FLA.—The American Agricultural Chemical Co. will shortly begin the erection of fertilizer factory. The main building will be three stories, 240 × 240 ft., and two buildings 60 × 200 ft. and 60 × 75 ft., respectively, will be erected. L. B. Curtis is Gen. Supt.

ELBA, ALA.—J. M. Garrett and W. B. Perdue will establish brick works.

COLUMBUS, MISS.—Samuel Kaye will erect a cottonseed-oil mill; oil or petroleum engine to be used for power.

CORINTH, MISS.—Plans are being prepared by Alcorn-Woolen Mfg. Co. for new mill building to be four stories, 50 × 160 ft. Contractors and supply men are invited to correspond at once.

NEW ORLEANS, LA.—H. T. Lawler Milling & Trading Co., Ltd., recently organized with $100,000 cap. stock, will erect mill building with daily capacity of 500 barrels. An elevator will also be erected.

LOUISVILLE, KY.—The plant of Geo. G. Fetter Printing Co., 422-26 West Market St., was damaged by fire to the extent of $50,000.

COVINGTON, KY.—The Johanningman Foundry Co. has secured a site on which to erect foundry at a cost of $35,000.

HOPKINSVILLE, KY.—Dering, Frank & Lewis, of Petersburg, Ind., have purchased a site on which to erect lumber mill.

CINCINNATI, O.—Chas. H. Stehling, Engr., 508 Commerce St., Milwaukee, Wis., is preparing plans and bids will be received in about two weeks for an addition to Eagle tannery for Anthony Steigler estate, Cincinnati. Cost, $50,000. Address, owner.

TOLEDO, O.—The Toledo Safe & Lock Co. is having plans prepared for foundry addition to company's plant at Glasboro.

YOUNGSTOWN, O.—Julian Kennedy, Bessemer Bldg., Pittsburg, Pa., will be associated with S. V. Huber & Co., Ferguson Bldg., Pittsburg, as engineers for new Bessemer steel plant and finishing mills to be erected by Youngstown Sheet & Tube Co. J. A. Campbell is Gen. Mgr. Plans are now being prepared.

DETROIT, MICH.—Rogers & Macfarlane, Archs., have prepared plans and are taking figures for boiler house and an addition to factory for Clayton & Lambert Mfg. Co., John E. Lambert, Secy. Brick, 2 stories, 34 × 60 ft. Cost, $15,000.

GRANDLEDGE, MICH.—The Crawford Chair Co. has plans for four-story brick factory building, 60 × 150 ft. Address B. R. Smith.

DETROIT, MICH.—The Detroit plant of Morgan, Wright Rubber Co. has purchased land for manufacturing plant. Rogers & Macfarlane, Archs., 1310 Penobscot Bldg., will prepare plans. Est. cost, $500,000.

DECATUR, ILL.—The Wabash R. R. Co. has secured a site here of 70 acres, on which to erect shops. W. S. Newhall is Ch. Engr., St. Louis, Mo. Work on buildings to begin at once.

CHICAGO, ILL.—The Parker-Washington Co. of Kansas City, Mo., has purchased a site at Dix and Lessing Sts., on which to erect an asphalt paving plant. The firm will have an office at 1012 Chamber of Commerce Bldg.

Jarvis Hunt, Arch., 100 Jackson St., has completed plans and is receiving estimates for factory to be erected at Polk St. and Fifth Ave., for Jos. Vehon, 12th St. and Michigan Ave. Brick, 7 stories, 102 × 115 ft. Cost, $200,000.

RED WING, MINN.—F. A. Gauger, Arch., 503 Bank of Minnesota Bldg., St. Paul, is preparing plans for shoe factory, 60 x 142 ft., for C. A. Beckman, Red Wing. Cost, $10,000. Address, owner.

PERU, KAN.—C. D. Ingleside, Sedan, Kan., will build a 20-ton ice plant at Peru, this fall.

OMAHA, NEB.—It is stated that the Lucern Products Co. is having plans prepared by Thos. R. Kimball, Arch., 503 McCague Bldg., for stock food factory building and plant, 300 x 700 ft.

The Omaha & Council Bluffs Street Ry. Co. is having plans prepared for remodeling its old power house into car shops; and plans for new shops, at 26th and Lake Sts. After plans and estimates are received, bids will be at once asked on most feasible of the two. W. A. Smith is Gen. Mgr., Merchant's National Bank Bldg.

RECTOR, ARK.—J. N. & O. N. Coats will establish a stave factory. Building will be 32 x 60 ft.

GIFFORD, ARK.—Rockwell Mfg. Co., Gifford, wants complete equipment of machinery for woodworking plant to be operated by electricity.

AMHERST, N. S.—A. S. Filmore intends removing his carriage factory from Southampton to this town, and operate it on a larger scale. It is proposed to erect a large building near Intercolonial Ry.

PERTH, ONT.—Ratepayers have decided in favor of by-law to loan $20,000 to Winn & Co., boot and shoe manufacturers, of Milton, Ont. They are to build a two-story factory building, 150 x 50 ft.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

ROAD ROLLER.—Ottawa, Ont.—Bids are reported asked by N. J. Ker, Cy. Engr., until May 10, for supply of 10-ton steam road roller.

DREDGE.—Galveston, Tex.—Bids are asked until May 31 for suction dredge. Capt. Edgar Jadwin, U. S. Engrs. (Advertised, Engineering News.)

DREDGING.—Ottawa, Ont.—Bids are asked by Department of Public Works, Fred. Gelinas, Secy., until May 15 for dredging at various places.

DREDGES.—Marysville, Cal. — Marysville Gold Dredging Co., has awarded contract for two dredges to MARION STEAM SHOVEL WORKS, Marion, O.

WHARF WORK.—Campbellton, N. B.—Contract for rebuilding wharf at this place has been let to C. J. B. SIMMONS, Fredericton, N. B., for $36,000.

DITCH WORK.—Crookston, Minn.—JOSEPH LAVIERRE, Crookston, is stated to have secured a contract for ditch work requiring about 200,000 cu. yds. excavation.

DREDGING.—New London, Conn.—Bids are asked until May 20 for dredging about 55,000 cu. yds. at Milford Harbor, Conn. Lt. Col. C. F. Powell, U. S. Engrs. (Advertised, Engineering News.)

DREDGING.—Mobile, Ala.—Bids are asked until May 31 for dredging in Pascagoula River and Mississippi Sound. Major W. E. Craighill, U. S. Engrs. (Advertised, Engineering News.)

DOCK CONSTRUCTION.—Chicago, Ill.—Bids are asked by Department Public Works, Wm. L. O'Connell, Deputy Comr., until 11 a. m. May 9 for constructing dock at Chicago Ave. pipe yard.

MONTREAL, QUE.—Contract for laying and jointing tubing in trenches for the pneumatic postal system in this city and Toronto has been let to TORONTO PNEUMATIC TUBING CO., Toronto, Ont.

DREDGING.—Portland, Me.—Bids are asked until May 29 for dredging in Damariscotta River, New Harbor and Bagaduce River, Me. Major W. M. Black, U. S. Engrs. (Advertised, Engineering News.)

RETAINING WALL.—Trenton, N. J.—Bids are asked until May 16 for constructing concrete retaining wall at outfall of sewer system, and for repairing present stone wall. Harry B. Salter, Cy. Clk.

WHARF WORK.—San Francisco, Cal.—Bids are asked until May 18 for rebuilding wharf, repairing its approach and building boat house at Humboldt light station. Col. Thomas H. Handbury, U. S. Engrs.

EXCAVATION.—Grand Rapids, Mich.—Bids are asked until June 2 for excavating new channel from Kalamazoo River to Lake Michigan. M. B. Adams, Col., Engrs. (Advertised, Engineering News.)

DREDGING.—New York, N. Y.—Bids were opened April 18 by Commissioner of Docks for about 100,000 cu. yds. dredging in East and Harlem Rivers. Contract being let to R. G. PACKARD, 130 Pearl St.

TIMBER.—Nashville, Tenn.—Bids are asked until June 5 for furnishing and delivering about 453,406 ft. B. M. long leaf yellow pine timber. Major H. C. Newcomer, U. S. Engrs. (Advertised, Engineering News.)

EARTH EMBANKMENT.—Washington, D. C.—Contract for construction of earth embankment approach for highway bridge over Potomac has been let to ERNEST L. MILLER, Petersburg, Va., for $44,800.

DITCH WORK.—Glenwood, Ia.—Miles and Fremont County Commissioners have awarded contract for construction of ditch, requiring 50,000 cu. yds. excavation, to EGENBERGER & POISALL, Plattsmouth, Neb.

LOCK.—Pittsburg, Pa.—Bids are asked until May 27 for building a lock with two chambers, two guide walls and a guard wall near Elizabeth, Pa. Major Wm. L. Sibert, U. S. Engrs. (Advertised, Engineering News.)

FREIGHT SHEDS.—New Orleans, La.—New Orleans Terminal Co. is reported to have awarded contract for constructing three new freight sheds on St. Louis St. to D. H. BARNES, New Orleans, for about $125,000.

WIDENING BOARD WALK.—Atlantic City.—Contract for widening board walk between Maryland and Illinois Aves. (bids received April 17) is stated to have been let to C. W. SNYDER & CO., Atlantic City, for $45,417.

WHARVES.—New Orleans, La.—Dock Commissioners are reported to have awarded contract to W. T. CAREY & BROS., New Orleans, for construction of two wharves, one at Hospital St. and the other at Mandeville St.

LAMP SHOP.—Tompkinsville, N. Y.—Bids are asked by Lieut.-Col. Wm. T. Rossell, U. S. Engrs., until 1 p. m., May 29, for erection of lamp-shop, light-house depot, Tompkinsville, N. Y. (Advertised, Engineering News.)

ORE DOCKS.—Port Arthur, Ont.—Contract for coal and ore docks at this place, to handle ore from Atukokan iron deposits, has been let to BARNETT RECORD CO., Minneapolis, Minn. Docks will handle 300,000 tons of ore annually.

LUMBER.—Washington, D. C.—Isthmian Canal Commission has awarded contracts for lumber under Classes A and B (bids received April 10) to ARTHUR GAMWELL, Seattle, Wash., for $21,080 and $17,697 respectively.

LEVEE.—New Orleans, La.—State Engineer's Office has awarded contract for constructing levee in Plaquemine Parish, involving construction of over 1,000,000 cu. yds. earth work to N. FREY, New Orleans, for about $120,000.

DREDGING.—Superior, Wis.—Contract for about 49,000 cu. yds. dredging at Superior entry for U. S. Government is stated to have been let to LAKE SUPERIOR CONTRACTING & DREDGING CO., Superior. Est. cost of work is $13,000.

DIKES.—Cincinnati, O.—Bids are asked until May 31 for building dike and shore protection near head of Grand Chain, and for building dikes and shore protection, with repairs to existing dikes near Mound City, Ill. Lt.-Col. E. H. Ruffner, U. S. Engrs.

STEAMER.—Portland, Ore.—Northern Commercial Co. has awarded contract for construction of a stern wheel steamer to JOSEPH SUPPLE, Portland. Machinery for new steamer will be constructed by WILLAMETTE STEEL & IRON WORKS.

CONDUIT WORK.—Utica, N. Y.—John Dunfee & Co., Dunfee Bldg., Syracuse, N. Y., is reported to be lowest bidder for constructing about seven miles of subways here for the Central New York Telephone & Telegraph Co. Work amounts to about $65,000.

LIGHT HOUSE, ETC.—Philadelphia, Pa.—Bids are asked by Maj. J. C. Sanford, U. S. Engrs., Philadelphia, until noon, May 31 for construction of a light-house, oil-house, boathouse, etc., at Reedy Island Range Front light-station, Del. (Advertised, Engineering News.)

PIPE, PIPE FITTINGS, ETC.—Washington, D. C.—Bids are asked by Isthmian Canal Commission, Major H. J. Gallagher, Purchasing Agent, until May 24 for furnishing pipe, pipe fittings, buckets, screws, copper, zinc, bar iron, etc. (Advertised, Engineering News.)

STONE SUPERSTRUCTURE, ETC.—Buffalo, N. Y.—Bids are asked until May 29 for construction of stone superstructure and sea slope, and for stone riprap on South Harbor section of Buffalo breakwater. Lt.-Col. H. M. Adams, U. S. Engrs. (Advertised, Engineering News.)

CONDUIT WORK.—New York, N. Y.—Bids are asked by Nicholas J. Hayes, Fire Comr., 157 E. 67th St., until May 10, for furnishing labor and materials required for placing conduits for the Fire Department telegraphs and alarm system underground in the Borough of Brooklyn.

LOCK GATES, ETC.—Nashville, Tenn.—Bids are asked until May 29 for construction, delivery and erection of two steel lock gates, and construction and delivery of filling valves, etc., at Lock No. 2, Cumberland River. Major H. C. Newcomer, U. S. Engrs. (Advertised, Engineering News.)

PIER WORK.—New York, N. Y.—Contract for removing old pier and building new pier at Maiden Lane and Pine St. has been let to AUGUSTUS WALSH, 96 Water St., for $53,180; contract for building new pier at East Ninth St. was also let to Mr. Walsh for $28,000. Bids were opened April 27.

TELEPHONE SYSTEM.—Glendive, Mont.—Bids are asked by the Engineer, U. S. Reclamation Service, Glendive, until June 1 for installing, in connection with Fort Buford reclamation service, a telephone system having four telephone stations and about 70 miles of pole line. (Advertised, Engineering News.)

STEAM PUMPS, PIPES, ETC.—Washington, D. C.—Bids are asked by Isthmian Canal Commission, Major H. J. Gallagher, Purchasing Agent, until May 27, for furnishing steam pumps, pipe, pipe fittings, hydrants, water meters, fire extinguishers, bolt cutters, hose reels, linen hose, etc. (Advertised, Engineering News.)

BARRIER.—San Francisco, Cal.—Bids were received April 19 by California Debris Commission, Capt. Wm. W. Harts, U. S. Engrs., for building portion of Barrier No. 1, the bid of Palmer & McBryde, San Francisco, of $37,960, being recommended for acceptance. This bid, itemized, will be found under Contract Prices.

CEMENT, STONE, CARTS, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until May 16 for furnishing quantity of naval supplies, among which are Portland cement, broken stone, hose, pipe, ash cans, milling cutters, dump carts, motors, factory trucks, etc. H. T. B. Harris, Paym.-Gen., U. S. N.

BULKHEAD.—Baltimore, Md.—Bids are asked by Board of Awards, E. Clay Timanus, Pres., until May 24 for construction of stone and timber bulkhead to inclose and form Pier No. 4, N. H. Hutton, Harbor Engr. Plans and specifications may be seen at office of Engineering News, 220 Broadway, New York. (Advertised, Engineering News.)

READERS' WANTS

If any one is in the mar[illegible] for any engineering or contracting s[illegible], the first thing to do is to refer to our advertising pages, but if the buyer cannot find w[illegible] he wants we particularly ask that he notify us at once and we will inform the proper par[illegible] without cost to the inquirer. A copy of ENGINEERING NEWS BUYERS' GUIDE will be mailed to any one upon application. This paper will always appreciate any [illegible] notes regarding public, or important private work, and will be pleased to receive det[illegible] items. Requests to hold names will be complied with in every case. Do not fail to write our advertisers or us.

DUMPY LEVELS.—Herrin, Ill.—E. C. Forbush writes us that he wants the names of dealers in dumpy levels.

EXCAVATING MACHINERY.—Huntington, W. Va.—Chas. O. Harrison is in the market for an excavator for sewer work.

TRACTION ENGINE.—Lynchburg, Va.—Minnigerode & Duckworth are reported in the market for a 12 or 15 ton engine.

IRON BEAMS AND GIRDERS.—New Orleans, La.—Clark & Weiss, Board of Trade, are in the market for structural material.

LEAD MAKERS.—Marlow, Tenn.—The Rand Powder Co. of Tennessee desires to communicate with lead makers in the south.

STEEL WATER TANK.—Pensacola, Fla.—C. Gunter Elmore, of this place, is in the market for a 10,000 to 15,000 gal. steel water tank.

QUARRY PLANT.—St. Louis, Mo.—The County Quarry & Construction Co., Granite Bldg., is in the market for quarry equipment.

CEMENT.—Huntington, W. Va.—Chas. O. Harrison is in the market for about 700 bbls. of cement, as is also C. C. Elmore, of Pensacola, Fla.

WELL DRILLING MACHINERY.—Alaska, W. Va.—The Hempshire Mineral Oil Co. is reported as in the market for well drilling machinery.

BOILER AND HEATING PLANT.—Houston, Tex.—Rorke & Smith, Box 232, are in the market for a 50-HP. boiler, and a radiator heating plant.

JUTE SACKS.—Greensboro, N. C.—The Guilford Plaster Co., 173 Denton Arcade, is in the market for about 100,000 jute bags, etc., according to reports.

SURVEYING INSTRUMENTS. — Calgary, Alta., Can.—Wm. A. Simpson, of Calgary, writes us that he wants data relating to latest instruments, levels, etc., for use in high mountain work.

TANKS, WINDMILLS, WOODWORKING MACHINERY, ETC.—Lynchburg, Va.—It is stated that Minnigerode & Duckworth are in the market for various supplies for a manufacturing plant, including the above.

BRIQUETTING MACHIN[illegible] — Boston, Mass.—H. W. Ash, M. E[illegible] Federal St., Boston, writes us that he w[illegible] to know the names of manufacturers of [illegible]uetting machinery which will handle w[illegible] fiber.

METAL SASHES, ETC.—K[illegible]ville, Tenn.—W. H. Burk, 700 W. Empir[illegible], writes us that he is in the market for [illegible] 75 metal sash for windows about 4 x [illegible] and about 35 from 5 x 15 ft. to 10 x [illegible] for show windows.

ELECTRICAL SUPPLIES[illegible]ford, Ark.—The Rockwell Mfg. Co. is [illegible]ted in the market, as is also the S. A. [illegible]ngs Co., Atlantic Bldg., Norfolk, Va., C[illegible] Shelverton, Mayor Austell, Ga., and the [illegible]ommissioners of Public Works, of Orangebu[illegible], S. C.

CARBOLIC ACID FOR SMOKELESS POWDER.—Japan.—It is stated that [illegible]kata & Co., Commission Merchants, 10 W[illegible] St., New York, and Tokio, Japan, are wanting bids for furnishing 100,000 kilos. of carbolic acid for use by the Japanese government for making smokeless powder.

MAKING GRAVITY CONCRETE MIXERS.—Chicago, Ill.—A correspondent wants the names and addresses of manufacturers in New York, Philadelphia and Chicago, who would take a contract to construct a new patent gravity concrete mixer. All expense of advertising and manufacture will be borne by patentee, although a reasonable price for machine is essential. Address "Concrete Mixer," 1636 Monadnock, Chicago.

CARTRIDGE SHELLS, ETC.—Niagara Falls, N. Y.—The Niagara Tachometer & Instrument Co., of Niagara Falls, N. Y., writes us that it wants information as to where it can obtain cartridge shells without the projectile, whose outside diameters would be approximately ¾-in., 1¼-in., 1¾-in., 2-in., 2½-in., 3-in., 3½-in. and 4-in., and whose lengths would be about one and one-half times the diameter. The company has written to a number of firms manufacturing cartridges for sporting purposes, and also to makers of b[illegible] specialties, but it is unable to obtain any satisfactory information as to where it might obtain the shells of the sizes above mentioned.

COAL TIPPLE.—Fernie, B. C.—Reports from this place state that contract for erection of the new steel tipple of the C. N. P. Coal Co. has been awarded to HOYLAND PATTERSON, Pittsburg, Pa. It will be fitted with latest machinery, and constructed entirely of steel. Capacity will be 4,000 tons daily. Cost is stated to be $170,000.

BOAT STONE, ETC.—New York, N. Y.—Bids are asked by Park Board, John J. Pallas, Pres., Arsenal Bldg., until May 11, for furnishing, delivering and putting in bulkhead at foot of Ocean Parkway 1,200 cu. yds. of boat stone. Bids also asked for repairs and alterations to boundary wall around Fort Greene Park, Borough of Brooklyn.

COAL AND ASH HANDLING MACHINERY.—Washington, D. C.—Contract for furnishing coal and ash handling machinery for sewage pumping station is stated to have been let to JOHN A. MEADE & CO., 11 Broadway, New York. At the opening of bids March 27 this company submitted ten proposals, ranging from $17,123 to $25,752.

BARGE CANAL IMPROVEMENT.—Albany, N. Y.—N. V. V. Francot, Supt. Pub. Wks., has awarded final contract, under bids received Dec. 15, 16 and 17, for improvement of New York state canals to F. A. MASELLI & CO., 1101 Farmers' Bank Bldg., Pittsburg, Pa. The work was under Contract No. 6, and was let for $1,005,982. Itemized bids for the above work were given in our issue of Dec. 22.

COAL HANDLING PLANT.—New Orleans, La.—Following bids were received April 29 by Bureau Yards and Docks, Washington, D. C. for coal storage and coal handling plant, Naval Station, New Orleans: The Wellman-Seaver-Morgan Co., 1298 Central Ave., Cleveland, O., $164,000; Snare & Triest Co., 143 Liberty St., New York, $147,900, $147,400. Hoshor-Platt Co., 120 Liberty St., New York, $147,300; $143,180, $141,210, $139,196, $138,050, $136,010, $132,900, $129,350, $128,141, $127,810.

FERRY STRUCTURES.—New York, N. Y.—Following bids were received May 1 by Maurice Featherson, Comr. Docks, for furnishing labor and materials for preparing for removing present ferry structures at St. George, S. I., and building new ferry structures in connection with the new St. George ferry terminal and for dredging thereat: G. B. Spearin, 17 Battery Pl., $510,294; W. H. Jenks, 130 Pearl St., $517,000; Geo. M. Rogers, 44 Broadway, $523,090; B. Rolf, 39 Courtlandt St., $511,513; all bidders from New York.

CANAL WORK.—New Orleans, La.—The following were the lowest bidders April 25 for construction of canal work, and will be awarded the contracts by Sewerage and Water Board of New Orleans: Contract 31-D, Orleans Relief Canal, Dunn, Philbrick & Co., Hibernia Bank Bldg., New Orleans, $122,686; Contract 32-D, Melpomene St. Canal, Dunn, Philbrick & Co., $82,732; Contract 33-D, London Ave., Outfall, Jahncke Navigation & Improvement Co., New Orleans, La., $7,850. Itemized bids under Contract 31-D. will be found under Contract Prices.

DAM WORK.—Pittsburg, Pa.—Following bids were received April 18 by Major Wm. L. Sibert, U. S. Engrs., for building 303 ft. of Chanoine dam, two bear trap dam foundations, each 93 ft. long, a Chanoine weir, 93 ft. long, three piers and abutment, dam No. 5, Ohio River, near Freedom, Pa.: Ohio River Contract Co., $296,321; Baker Contract Co., Inc., Pittsburg, Pa., $287,284; Dravo Contracting Co., Pittsburg, Pa., $273,408. Bids were received April 19 for building 98 ft. of Chanoine dam, two bear trap dam foundations, each 93 ft. long, a Chanoine weir, 100 ft. long, three piers and abutment, dam No. 4, Ohio River, near Legionville, Pa., the bidders and their bids being as follows: Dravo Contracting Co., Pittsburg, Pa., $230,345; James H. McQuade Co., Pittsburg, Pa., $233,697; Baker Contract Co., Inc., Pittsburg, Pa., $224,044.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

ROAD WORK.—Alaska.—Between $75,000 and $100,000 is to be spent by the U. S. Government in road and trail building. Major W. P. Richardson, with headquarters at Skagway, is in charge.

COALING PLANT.—Philippines.—Bids are asked by Bureau Yards and Docks, M. T. Endicott, Ch., Washington, D. C., until Aug. 26 for constructing a plant for handling and storing coal at Naval Station, Olongapo, P. I. Appropriation of $500,000 is available.

WHARF, ROADWAY, ETC.—Hawaii.—Bids are asked by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., until June 15, for constructing wharf and roadway, laundry building and plant, retaining wall, and dredging at U. S. Quarantine Station, Honolulu, Hawaii.

JAIL, PIERS, RAILROAD.—Porto Rico.—A correspondent in San Juan, P. R., sends us the following information concerning projected work in this country:

Plans and specifications have been prepared by the Bureau of Public Works at Porto Rico for the construction of the Arecibo District Jail in the city of Arecibo. The work will soon be advertised, and is in charge of the Superintendent of Public Works of the island, San Juan, P. R. The work is estimated to cost under $36,000, and calls for a one-story masonry structure.

Jose Silva, of Aguadilla, has applied to the Executive Council for a franchise to construct two piers and a breakwater for same in the harbor of Aguadilla. Estimated cost of work, $250,000.

The franchises for the construction of railroad from Humacao to the Playa and for the control of the Comerio Water Falls have not yet been awarded. There are many parties who desire to obtain same.

MEXICO.

The names of parties awarded contracts are printed in capital letters.

CYANIDE PLANT.—La Vesca, Tep[illegible].—The Zapopan Gold Mining Co. proposes to erect a cyanide plant at its mines in La Ve[illegible], Territory of Tepic. C. C. Bruckner is Mgr. of the company.

SMELTERS.—Sonora.—Cieneguita Copper Co., 25 Broad St., New York, have awarded a contract to ROY & TITCOMB, Nogales,

Ariz., for the erection of two smelters with a capacity of 100 tons each at the mines near Cieneguita, Sonora, Mexico.

DISTILLERY.—Guadalajara, Jal.—Dr. V. H. Hobson, Richmond, Ky., proposes to erect a whisky distillery at Guadalajara, state of Jalisco, and has applied to the state government for a concession.

CYANIDE PLANT.—Mezquital del Oro, Zac. —The Mezquital Gold Mines, Limited, which owns mines at Mezquital del Oro, state of Zacatecas, are to enlarge their cyanide plant. Maurice [illegible]kerell is Gen. Mgr. at the mines.

HYDRO-ELECTRIC PLANT. — Federal District.—[illegible]ilio Penzon, Mgr. Hydro-Electric Power Exploration Co., has applied to the Secretary of Fomento for a concession to utilize 1,000 liters of water per second from the [illegible]chos River.

DISTILLERY.—Hermosillo, Sonora.—A distillery is to be built at this place by the Kentucky-Sonora Distilling Co., which has capital stock of $100,000. The incorporators are John A. [illegible]mmons, M. C. Alvord and E. F. Farrel, all of Lexington, Ky. .

IRRIGATION WORKS.—Coahuila.—Important irrigation works are about to be commenced near the town of Fresnos, in the state of Coahuila. Work will consist mainly of a canal 3,000 meters in length, to be known as the Tajo de San Pedro, and is estimated to cost $300,000.

FACTORY.—City of Mexico.—Rodolfo Reyes a lawyer of the City of Mexico, in behalf of the company known as "La Favorita," S. A., has petitioned the Department of Fomento for a concession for the establishment of a factory for the liquefaction and compression of carbonic gas. They also desire to establish a factory for the manufacture of oil from corn.

ELECTRIC RAILWAY.—Guadalajara.—Application has been made to the state government for a concession for the proposed electric railroad between Guadalajara and Chamela, on the Pacific coast. The line is being promoted by M. C. Miller, of Minneapolis, Minn. It is estimated that the construction of the road and adequate port facilities on Chamela bay will cost $10,000,000 gold.

RESERVOIR.—Guadalajara.—Lucio I. Gutierrez, Director Water Service and Sewer System of the city of Guadalajara, has presented to the city council an estimate of the cost of constructing a water reservoir at the Colomos water-works plant. The cost of the improvement will be $320,000 and it is understood that the contract for the construction of the reservoir will soon be let.

FACTORY.—Cuatro Cienegas, Coahuila.—E. Delafond, City of Mexico, is arranging to establish a factory here for the manufacture of rubber from the guayule plant. According to the concession from the state government the plant which he shall establish here shall turn out not less than 20 tons of rubber per day for a period of 20 years. It is said that Mr. Delafond will establish similar factories in other places of the state.

REDUCTION WORKS.—Etzetlan, Jal.—The Amparo Mining Co., of Etzetlan, Jal., are to erect reduction works, of a daily capacity of 100 tons as soon as experiments determine the exact process to be followed in treating the ores at the mines, and it is possible the works may be operated by electricity transmitted from hydraulic works now being erected by the San Pedro Analco Mining Co. at San Pedro Analco. Ferdinand Sustersic is Genl. Mgr. at the mines.

PAPER MILL.—Tamascopo, San Luis Potosi.—The Rio Tamascopo Sugar Co., which owns a large sugar plantation near Tamascopo, has taken steps towards the immediate erection of a paper mill to cost about $50,000 on its plantation. The mill will manufacture a news print grade of paper from a plant which grows wild in great profusion on the lands of the company. Among the stockholders of the company are ex-Gov. Edward Scofield, of Coconto, Wis.; William Buchanan and F. C. Hyde, both of Appleton, Wis.

RAILWAY AND MARBLE QUARRIES.—Cacahuamilpa, Guerrero.—Compania Mexicana Explotadora de las Grutas de Cacahuamilpa, has been organized in the City of Mexico to develop and exploit the immense deposits of fine marble existing on lands owned by the company, and to build a railway from Cacahuamilpa to the Hermosa station of the Cuernavaca division of the Mexican Central. The council of administration consists of Carlos Bach, Pres.; Emilio Leyzegui, E. Fernandez Castello, Javier Morales Cortazar, Lic. Gomez Perez and Jose Nozari.

REFINERY.—Fubero, Veracruz.—The oil fileds of Mexico is to construct a 2,000 bbl. refinery on its property at Fubero, state of Veracruz. A meeting of the stockholders was to be held in New York April 25, to approve the issue of $500,000 mortgage bonds for the purpose of meeting the expense of the construction and equipment of the refinery. Surveys are now in progress by the National Lines of Mexico for the location of a line for a branch of the Interoceanic railroad to the property, and, it is stated, construction of the road will commence shortly. Percy M. Furber, 52 William St., New York, is President of the company.

FOREIGN CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

RAILWAY EXTENSION.—Servia.—It is announced that the Servian Government has decided to begin work on its plan of railway extension at once, by constructing a line from Radujewatz, on the Danube, near the Bulgarian frontier, to Ushitze, a place in the mountains not far from where Servia, Bosnia and Novi Bazar touch each other. This line will traverse Servia from northeast to southwest and will be of commercial as well as strategic importance. The new line will be about 373 miles long.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

BRIDGE APPROACHES.—New York, N. Y. —Following bids were received April 20 by Louis F. Haffen, Pres., Bronx Borough, for constructing approaches to bridges over the New York Central & Hudson River R. R. and the New York and Putnam R. R. at Depot Pl and W. 177th St.: (1) Jno. J. Hopper, 215 W. 125th St.; (2) J. C. Rodgers, 1900 Amsterdam Ave.; (3) Century Construction Co., 5 E. 42d St.; (4) Jno. J. Hart Co., 69 Broad St.; (5) Snare & Triest Co., 39 Cortlandt St.; (6) GALLO & PETTELLI, 127 Mulberry St. (awarded contract); (7) Cunningham & Kearne Contracting Co., 440 E. 91st St.; (8) T. V. Smith Contracting Co., 147 E. 121st St.; (9) Driscoll & Cronin, 2337 Broadway:

walks, 84 M. ft. B. M., $15; curbs and gutters, 226 M. ft. B. M., $16; 18,200 sq. yds. cement walks, $1.05; 755 sq. yds. alley crossings, $1.15; 5,500 lin. ft. 3-in. sewer, $0.01; clearing and grubbing, lump sum, $600; 1,440 lin. ft. box drains, $0.25; 95 lin. ft. 8-in. pipe sewer, $0.80; fixed estimates, $1,500; total, $39,695.

*BARRIER.—San Francisco, Cal. — Bids were received April 19 by California Debris Commission, Capt. Wm. W. Harts, U. S. Engrs., Secy., for building portion of Barrier No. 1, Yuba River, Cal.; the proposal of Palmer & McBryde, San Francisco, which was recommended for acceptance, was as follows: Excavating material, 3,000 cu. yds., $0.75; furnishing, delivering and placing 12,000 cu. yds. embankment, $0.30; furnishing, delivering and placing 59,000 ft. B. M. bulkhead lumber, $25; rock fill, 10,000 tons, $0.875; large rock, 2,200 tons, $2; concrete, 3,300 cu. yds., $4.25; cable, 17,000 ft., $0.15; brush mattress, 800 sq. yds., $0.70; bags filled with sand, 5,000, $0.07; total, $37,960.

WATER MAINS, PIPE SEWERS, CEMENT SIDEWALKS.—Salt Lake City, Utah.—Bids were received April 10 by Board Public Works for construction of such water mains, pipe sewers and cement sidewalks as may be ordered by the city council during 1905, the contracts for construction of water mains and pipe sewers being awarded to P. P. FORD, at $19,319 and $64,627, respectively. The contract for constructing cement sidewalks was awarded to UTAH FIREPROOFING CO., at $29,230, their bid being as follows. 10,000 cu. yds. grading: excavation, $0.35; 1,000 cu. yds. grading; embankment, $0.30; 200,000 sq. ft. 4 ins. thick, cement sidewalk pavement, $0.11¾; 6,000 sq. ft., 6 ins. thick, cement sidewalk, $0.16; 10,000 ft. B. M. flumes, $0.04; 2,000 lin. ft. guard timbers, $0.10; removing 30 trees 6 ins. or less in diameter, $1; removing 30 trees between 6 ins. and 12 ins. in diameter, $2; removing 70 trees over 1 ft. in diameter, $4; unskilled labor on extra work, per day, $2.20; skilled labor, mason, on extra work, per day, $5; skilled labor, carpenter, on extra work, per day, $4. Bid of P. P. Ford for constructing water mains was as follows: 5,000 cu. yds. excavation and back filling, $0.41; furnishing and laying 12,000 lin. ft. 6-in. cast-iron pipe, $0.86; 800 lin. ft. 8-in. cast-iron pipe, $1.30; 800 lin. ft. 10-in. cast-iron pipe, $1.70; furnishing and setting 18,000 lbs. special castings, $0.05; furnishing and setting 60 6-in. valves, $16.75; two 8-in. valves, $24; two 10-in. valves, $33.50; furnishing and setting 30 hydrants, $43; furnishing and setting 40 cast-iron valve boxes, $9.75; constructing 12 brick valve boxes, $29.75; constructing 12 brick hydrant boxes, $41. For constructing pipe sewers, P. P. Ford submitted the following bid: 48,000 cu. yds. excavating and backfilling, dry work, $0.51; 2,000 cu. yds. excavating and filling, wet work, $0.90; furnishing and laying 60,000 lin. ft. 8-in. pipe, $0.356; 800 lin. ft. 10-in. pipe, $0.47; 800 lin. ft. 12-in. pipe, $0.59; 800 lin. ft. 15-in. pipe, $0.94; 4,500 lin. ft. 18-in. pipe, $1.37; constructing 150 3-ft. × 4-ft. manholes, $53.75; constructing ten 4-ft. × 5-ft. manholes, $59; constructing three flush-tanks, $75; constructing three combined manholes and flush-tanks, $135; unskilled labor on extra work, per day, $2.50; skilled labor, mason, on extra work, per day, $6.50.

Bids received at New York, N. Y., April 20, 1905, by Louis F. Haffen, Pres. Bronx Borough, for Constructing Approaches to Bridges Over the New York Central & Hudson River RR. and the New York & Putnam RR. at Depot Pl. and W. 177th St.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Removal and disposal of old bulkheads, piles, etc.		$1,500	$1,000	$1,250	$1,500	$700	$500	$2,000	$1,000	$1,500
Excavation	6,300 cu. yds.	1.50	.50	1.51	2.25	2.00	2.00	2.00	1.50	1.10
Bearing piles	31,200 lin. ft.	.35	.30	.39	.30	.30	.26	.18	.35	.21
Filling and back filling	29,000 cu. yds.	.35	.40	.75	.70	.30	.08	.38	.35	.30
Rock filling	800 cu. yds.	1.00	1.00	1.50	1.25	.90	.50	1.00	2.25	1.25
Standard receiving basins	2	200.00	150.00	218.75	200.00	100.00	150.00	150.00	159.00	150.00
Inlets	3	75.00	100.00	112.50	75.00	40.00	60.00	150.00	60.00	50.00
12-in. vitrified stoneware pipe	130 lin. ft.	1.20	2.00	75.00	3.00	2.00	1.00	1.50	2.50	1.00
8-in. vitrified stoneware pipe	50 lin. ft.	1.00	1.50	.44	2.50	1.30	1.00	1.25	1.00	.90
Dry rubble masonry	1,950 cu. yds.	2.50	3.00	3.13	2.50	5.00	1.00	2.00	2.75	3.30
Class "A" concrete	290 cu. yds.	10.00	10.00	9.00	14.00	8.00	7.00	7.30	9.00	9.50
Class "B" concrete	9,100 cu. yds.	7.50	6.00	6.63	7.50	6.70	3.50	6.00	6.00	5.75
Class "C" concrete	10 cu. yds.	25.00	20.00	16.25	20.00	20.00	15.00	30.00	40.00	21.00
Additional barrels Portland cement	100	1.75	3.00	1.56	1.50	1.50	1.50	1.75	1.50	1.50
Waterproofing	110 sq. yds.	.80	1.00	.50	1.25	1.00	1.00	.72	.70	.30
Lumber	25,000 ft. B. M.	45.00	40.00	43.75	40.00	40.00	20.00	60.00	40.00	40.00
New curbstone	3,400 lin. ft.	1.00	.90	.94	.85	.40	.80	.85	.80	.80
New flagging	16,400 sq. ft.	.35	.25	.31	.28	.20	.27	.24	.24	.24
New Bridgestone	900 sq. ft.	.75	.60	.81	.65	.30	.80	.50	.60	.68
Bluestone steps and landings	90 cu. ft.	1.50	2.00	3.66	2.50	1.00	3.00	2.00	3.00	2.50
Granite block pavement	3,500 sq. yds.	2.75	2.50	2.81	2.50	2.00	2.25	2.00	2.40	2.45
Asphalt block pavement	300 sq. yds.	2.50	2.00	2.24	2.50	2.00	2.50	1.75	2.50	3.00
Macadam pavement	4,000 sq. yds.	1.50	1.50	.75	1.25	1.00	1.35	1.25	1.20	1.00
Iron and steel	155,000 lbs.	.05	.04	.04$\frac{3}{16}$	.04$\frac{5}{16}$	.03	.04½	.04½	.04½	.05
Reinforcing bars	11,500 lbs.	.05	.03	.04	.03$\frac{5}{16}$	.03	.03	.03½	.05	.04
Woven wire fabric	2,000 sq. ft.	.04	.10	.08	.10	.04	.05	.05	.10	.06
Ornamental railing	1,850 lin. ft.	3.25	2.00	2.80	4.00	2.00	4.00	3.50	3.00	2.50
Gas pipe railing	400 lin. ft.	1.25	1.00	1.96	2.25	1.00	2.00	2.00	2.00	1.25
Totals		$152,556	$125,880	$126,378	$164,770	$133,000	$99,115	$130,448	$133,833	$119,138

CANAL.—New Orleans, La.—Bids were received April 25 by the Sewerage and Water Board of New Orleans for canal work, the lowest bidder on contract 32-D, Melpomene St. Canal, being Dunn, Philbrick & Co., and the lowest bidder on Contract 33-D, London Ave., Outfall, being Jahncke Navigation & Improvement Co., New Orleans, at $7,850. The itemized bids on Contract 31-D, Orleans Relief Canal, were as follows: (1) Dunn, Philbrick & Co., Hibernia Bank Bldg., New Orleans; (2) Charles R. Corbett, 224 Valette St., New Orleans; (3) W. O. Burton, Tchoupitoulas and Julia Sts., New Orleans:

*WATER PIPE.—Wilmington, Del.—Following bids were received May 1 by the Water Department, T. A. Leisen, Ch. Engr., for furnishing cast-iron water pipe; (1) 3,640 tons 48-in., (2) 2,460 tons 42-in., (3) 140 tons specials: R. D. Wood, (1) $23.60, (2) $23.60, (3) $48; United States Cast-Iron Pipe Co., (1) $24.40, (2) $24.40, (3) $54.40; T. A. Gillespie Co., (1) $25.50, (2) $25.50, (3) $60. For furnishing steel pipe the bids were as follows; (1) 11,120 ft. 48-in. or 49-in. pipe, (2) 9,500 ft. 43-in. pipe, (3) 49-in. pipe: T. A. Gillespie Co., ½-in., (2) $7.10; ⅝-in., (2) $8.60. Carroll-Porter Co., ¼-in., (1) $4.90, (2) $4.30, (3) $4.95; $\frac{5}{16}$-in., (1) $5.50, (2) $4.90, (3) $5.55; ⅜-in., (1) $6.20, (2) $5.50, (3) $6.30; ½-in., (1) $7.65, (2) $6.75, (3) $7.70; ⅝-in., (1) $9.10, (2) $7.97, (3) $9.20. T. A. Gillespie Co., locking bar pipe, $\frac{5}{16}$-in., (2) $5.25; ⅜-in., (1) $6.75, (2) $5.75; $\frac{7}{16}$-in., (1) $6.90, (2) $6.10; ½-in., (1) $7.45, (2) $6.35.

Bids received at New Orleans, La., April 25, 1905, by the Sewerage and Water Board of New Orleans, for Canal Work.

Items.	Quantities.	(1)	(2)	(3)
Excavation, delivered not over 125 ft. from center of canal	80,000 cu. yds.	.49	.50	.65
Overhaul per 100 ft. in excess of 125 ft	40,000 "	.02½	.20	.25
Re-handling of excavated material	6,000 "	.25	.30	.25
12-in. round yellow pine piling, driven	81,000 lin. ft.	.30	.30	.30
Yellow pine or Cypress capping, including iron fastenings	345,000 ft. B. M.	35.00	27.00	45.00
Dressed Cypress planking, including iron fastenings	410,000 "	30.00	27.00	25.00
Creosoted pine lumber, dressed, including iron fastenings	490,000 "	43.50	40.00	45.00
Yellow pine lumber in bridges, including iron fastenings	113,000 "	32.00	30.00	30.00
Cypress lumber in culverts, including iron fastenings	64,000 "	32.50	27.00	25.00
Concrete	260 cu. yds.	10.00	20.00	10.00
Steel rods in place	14,000 lbs.	.05	.05	.04
Cast-iron in place	9,000 "	.05	.04	.03
3-in. porous drain tiles in place	5,000 lin. ft.	.10	.10	.04
Creosoted 12-in. round yellow pine piling, driven	10,000 "	.42½	.50	.45
Totals		$122,686	$127,963	$145,745

*PIPE LAYING.—Waterville, Me.—Following bids were received April 29 by Kennebec Water District, for laying cast-iron water pipe and appurtenances in Waterville, Winslow, Fairfield and Benton, Me.; Leonard Metcalf, Engr., Boston, Mass.: (1) Boylston Construction Co., West Boylston, Mass.; (2) Horace Purington Co.; (3) Nichols-Magee Construction Co.:

Bids received at Waterville, Me., April 29, 1905, by Kennebec Water District, for Laying Cast-Iron Water Pipe and Appurtenances in Waterville, Winslow, Fairfield and Benton, Me.

Items.	Quantities.	(1)	(2)	(3)
Earth excavation 0—7 ft. in depth outside of trench lines; amount small	......	.25	....	....
Earth excavation 7—14 ft. in depth, including pipe trench; amount small	......	.60	....	....
Rock excavation 0—7 ft. in depth	1,000 cu. yds.	4.00	4.00	6.00
Rock excavation 7—14 ft. in depth	50 "	6.00	8.00	10.00
Additional haul; amount small	......	.02	....	....
12-in. pipe-laying over the Waterville and Winslow bridge, including boxing, etc.	560 lin. ft.	2.65	3.50	.62
8-in. pipe-laying over the Fairfield and Benton bridge, including boxing, etc.	840 "	2.45	2.40	.62
10-in. flexible joint pipe-laying under Sebasticook River	260 "	12.50	15.00	25.00
16-in. pipe-laying	2,500 "	.71	.80	.62
14-in. pipe-laying	1,900 "	.55	.75	.62
12-in. pipe-laying	27,000 "	.38	.58	.62
10 in. pipe-laying	4,000 "	.35	.49	.62
8-in. pipe-laying	19,000 "	.29	.40	.62
6-in. pipe-laying	2,300 "	.25	.35	.62
Taking old pipe out of trench and removing to points required	15,000 "	.20	.17	.20
Reconnecting old services to new pipe	650 "	2.00	1.85	5.00
Setting hydrants on new pipe line, number uncertain; from 15—40	....	2.00	....	....
Taking up and relaying granite block paving along pipe lines	800 lin. ft.	.30	.90	.30
Portland cement concrete	50 cu. yds.	10.00	10.00	6.00
Brick masonry laid in Portland cement mortar, none anticipated	......	8.00	....	....
Rubble stone masonry laid in Portland cement mortar, none anticipated	......	5.00	....	....
Sheeting to be left in place, none anticipated	......	15.00	....	....
Totals		$36,697	$46,698	$55,812

CEMENT PAVING.—Seattle, Wash.—Bids were received by Board Public Works April 22 for cement paving, and the contract is stated to have been let to Frank & Brandon, Seattle, at the following bid: 50,000 cu. yds. earth excavation, $0.24½; Cross-

INDUSTRIAL NOTES.

PARSON MFG. CO. announces its removal to the Barclay Building, 299 Broadway, New York.

THE MAGNUS METAL CO. after May 1 will be located in the Trinity Bldg., 111 Broadway, New York. M. S. Paine, Secy.

THE RITER-CONLEY MFG. CO., Pittsburg, Pa., announces the removal of its offices from 39 Cortlandt St. to the Trinity Building, 111 Broadway, New York.

THE SNARE & TRIEST CO., New York, will remove on May 1 to its new offices in the Central Bldg., 143 Liberty St. The telephone number will remain the same as at the old address.

AMERICAN LOCOMOTIVE CO. and the ROGERS LOCOMOTIVE WORKS announce that after April 24 the general offices of the company will be located in the Trinity Bldg., 111 Broadway, New York.

THE STROBEL STEEL CONSTRUCTION CO., of Chicago, has been incorporated by Charles F. Strobel, M. Am. Soc. C. E., Henry A. Gardner and William F. Anderson. The capital stock is $50,000.

THE POWER SPECIALTY CO., 126 Liberty St., N. Y., states that its Chicago office will be moved from the Monadnock Block to The Rookery. Mr. Alex. Bradley, the Chicago sales manager, will remain in charge.

THE NATIONAL METER CO., John C. Kelly, Pres., 84 Chambers St., New York, announces that at the end of April it had sold 450,000 of its water meters. The number sold at the end of March was 440,000 meters.

THE SCHUTTE & KOERTING CO., 12th and Thompson Sts., Philadelphia, has opened a branch office in the Security Bldg., Chicago, under the management of E. M. Caskey, M. E. The company makes injectors, valves, condensers, spray nozzles, syphons and steam specialties of all description.

THE CAMBRIA STEEL CO. has recently purchased for its new power house two 800 K. W. Bullock generators. These will be built by Allis-Chambers Co. at its electrical works in Cincinnati, and are intended to furnish power for large ore handling cranes.

NEWMAN'S AKRON CEMENT CO., Buffalo, N. Y., is furnishing the Akron Star Brand Cement in building a large addition to the Larkin soap factory in Buffalo, and has taken contract to supply 30,000 bbls. of same kind of cement to the city of Detroit for use in street paving, sewers, etc.

THE FEDERAL RAILWAY SIGNAL CO., of New York, announces that Mr. Lawrence Griffith, formerly Engineer of Maintenance of Way of the Grand Central Station and Harlem line of the New York Central R. R., has accepted the position of Vice-President. The company's offices have been removed to 60 Wall St., New York.

THE OBION LIGHTING CO., Obion, Tenn., has ordered from Allis-Chalmers Co. one Reliance engine, with cylinder 40 ins. in diameter and 24-in. stroke, 175-KW. 2-phase, Bullock alternator with 4-KW. exciter, together with switchboard, boiler, duplex feed water pump, arc lamps and regulator, etc., to furnish the complete equipment for an electric lighting plant. The generator will be connected to the engine by a belt and the exciter will be separately driven.

JOHN F. ALLEN, New York, manufacturer of the Allen Portable Pneumatic Riveting Machines, has received an order for seven of its machines to be delivered to the following plants of the Am. Car & Fdry. Co.: Memphis, one riveter; Jeffersonville, Ind., two riveters; Madison, Ill., four riveters. This shipment will make a total of 60 Allen riveters now in use by the American Car & Foundry Co.

THE BETHLEHEM STEEL CO., of South Bethlehem, Pa., will install in one of their rolling mills at that place another heavy-duty Reynolds-Corliss non-condensing engine, with cylinder 30 ins. in diameter and a 48-in. stroke, for direct connection to a 500-KW. generator. The engine will be built at the West Allis, Milwaukee, works of Allis-Chalmers Co., and is to be practically the duplicate of one now running at the South Bethlehem plant.

THE FRED. W. WOLF CO., of Chicago, manufacturers of the ammonia absorption machines, are having built at West Allis, Wis., by Allis-Chalmers Co., two heavy-duty Reynolds-Corliss engines, with 24-in. cylinders and a 42-in. stroke. One of these is intended for installation at the refrigerating plant of the Schoenhofen Brewing Co., in Chicago, and the other at the Spreckels Sugar Refinery, in San Francisco. They are to furnish the power for driving the Wolf Co.'s machines and will be direct connected.

THE CLIMAX STOCK GUARD CO., Chicago and Canton, O., announces that its sales for the month of April include 33 carloads of the Climax "Clay" cattle guards which were shipped to the following railroads: Wisconsin & Michigan R. R. Co., New York Central & Hudson River R. R., Long Island R. R., Morgantown & Kingwood R. R., Pennsylvania R. R., Washington & Canonsburg Elec. Line, Warren & Jamestown St. Ry., Portsmouth, Dover & York Elec. R. R., Waterloo, Cedar Falls & Northern and the Chicago & Alton.

THE INGERSOLL-SERGEANT DRILL CO., New York, states that the last official act of the Panama Canal Commission before resigning was to close a contract with this company for 50 rock drills. These machines are to be used in the removal of rock in the Culebra Cut. The commission furthermore authorized the same company to remodel a large number of the French-Ingersoll drills, built in France under the patents of the American manufacturers. These machines remain from the original equipment of the old French company formerly operating on the canal.

THE WARREN ASPHALT PAVING CO. has been incorporated under the laws of Massachusetts, with principal office at Cambridge, with a paid up capital of $25,000. The officers are: Geo. C. Warren, President; Geo. H. Perkins, Secretary; A. H. Johnson, Treasurer. The object of the corporation is to continue the business previously done by the copartnership existing under the same name, consisting of refining and furnishing asphalt, asphalt paving plants and expert advice to paving contractors, together with contracting for the laying of asphalt pavements, making a specialty of Warren's Acme asphalt, which has been used during the past four years in Utica, Toronto and London, Winnipeg, Davenport, Omaha, Boston, St. Louis, etc.

THE H. W. JOHNS-MANVILLE CO., 100 William St., New York, has established branches in San Francisco, Seattle, Kansas City, Los Angeles, Little Rock, and Minneapolis. With these in addition to the old branches, New York, Milwaukee, Chicago, St. Louis, Boston, Philadelphia, Pittsburg, Cleveland, New Orleans, London, Paris and Brussels, the company now has 18 branches.

THE WELLMAN-SEAVER-MORGAN CO., Cleveland, O., announces that Geo. B. Damon, who has been manager of their N. Y. office, has been transferred to an important position in connection with the engineering and sales department at Cleveland, O., and that W. A. Stadelman, for the past ten years manager of the eastern office of the Brown Hoisting Machinery Co., has become the manager of the general eastern office of the Wellman-Seaver-Morgan Co., with offices at 42 Broadway, N. Y. Mr. Stadelman was formerly connected with the Sprague Electric & Ry. Motor Co. as Chief Engineer of the Equitable Electric Ry. Construction Co., and General Manager of the Bristol Belt Line Ry. Co.

A PRIZE COMPETITION of interest to artists and designers as well as to owners and users of motor cars has been arranged by the George N. Pierce Co., of Buffalo, manufacturers of the Pierce Great Arrow cars. This is an offer of three sets of first and second prizes. First, for the best design of a body for an enclosed car; second, for the best design of a body for a touring car, and third, for the best color scheme for any motor car. The first prize for each of the first two competitions is $250, and the second prize $100. For the last competition the first prize is $200, and the second $100. The contest closes June 1, and prizes will be awarded as soon as a decision can be reached. Any one wishing to compete in this competition can secure full information and scale drawings by writing to the George N. Pierce Co., Buffalo, N. Y.

THE CUYAHOGA CONSTRUCTION CO., of Cleveland, has recently contracted with Allis-Chalmers Co., of Milwaukee, for the equipment of three sub-stations of the Sandusky, Norwalk & Mansfield Ry., the headquarters of which are located at Norwalk, O. Each of these stations will be equipped with one 300-KW. compound wound Bullock rotary converter, three 110-KW. static transformers and complete switchboard apparatus, including lightning arresters. Five car equipments, each consisting of four Bullock 50-HP. railway motors, with controllers, etc., have also been ordered. This road is to extend from Plymouth to Norwalk, where passengers can be transferred to the electric railway extending to Sandusky, and there make connections with the Lake Shore Electric Ry. for both Toledo and Cleveland. Eventually there will be uninterrupted service between Mansfield and Toledo.

THE WESTINGHOUSE COMPANIES report the following orders for steam turbine and generator outfits: Three of these outfits have recently been ordered by the Public Service Corporation of New Jersey, one having an output of 500 KW. and two with ratings of 1,000 KW. each. There is also a 1,000-KW. turbo-generator building for the Indian Orchard Co., and a 400-HP. induction motor with starting devise, and two 300-KW. transformers. Westinghouse, Church, Kerr & Co. are the designers and engineers for this station. The Truckee River General Electric Co., of California, operating many high potential lines, will add a 2,000-KW. alternating current belt-driven generator, four 750-KW. and four 625-KW. transformers to their present equipment. Westinghouse low equivalent lighting arresters and choke coils are being used for the protection of apparatus, and more will be added.

THE A. S. CAMERON STEAM PUMP WORKS, New York, have withdrawn their agency from the Mine & Smelter Supply Co. and have transferred their agencies to Cary & Fielding, 1711 Tremont St., Denver; Utah Mining, Machinery & Supply Co., 228 S. West Temple St., Salt Lake City; Ingersoll-Sergeant Drill Co., El Paso, Tex.; Victor M. Braschi & Co., Cadenas St., No. 2, Mexico City, Mex. These firms will carry a full line of the "Cameron" pumps and repair parts in stock, and doubtless will be able to fill all orders on shortest notice. John Cary and Robt. Cary, his brother, father and uncle, respectively, of J. W. Cary, of Cary & Fielding, were the founders of the Mine & Smelter Supply Co., although they have since severed their connection with it, and took over from the old firm of C. E. Kennedy & Co. the agency for the sale of the "Cameron" pumps. It is rumored that in addition to the stock transferred, three carloads of pumps and parts have been received by Cary & Fielding, and a carload each by the Utah Mining, Machinery & Supply Co., the Ingersoll-Sergeant Drill Co. and Victor M. Braschi & Co.

THE ELECTRO-DYNAMIC CO., Bayonne, N. J., and New York City, announces that it has secured spaces one and two in Section O in the main exhibition building at the International Railway Congress to be held in Washington May 3 to 13, and will exhibit in their spaces one of its type "S-S" four to one inter-pole variable speed motor, belted to a generator. The company will also have on exhibition frames of its different sizes of motors running from 1 HP. at a speed ratio of four to one up to 10 HP. at a speed ratio of 4 to 1. The motors which it will exhibit will cover 123 varieties. The Electro-Dynamic Co. will within the next 90 days be prepared to sell at least 200 varieties of constant and variable speed motors running up as high as 150 HP. In addition to the above exhibit one of its "S-S" variable speed motors, having a speed ratio of four to one, which will operate the electric car lighting equipment of the Consolidated Ry. Electric Lighting & Equipment Co., whose exhibit is located in spaces 9, 10, 11 and 12 in Section "O," and one of its motors with a capacity of 10 HP. at a speed ratio of two to one, will drive a vertical turret lathe in the exhibit of the Bullard Machine Tool Co.

THE WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, is building for the People's Power Co., of Moline, Ill., two engine-type generators to be installed in their power station. The addition to the present equipment will be a 1,100-KW., two-phase alternator of the revolving field type, operating at 2,400 and 4,800 volts, and a 600-KW., 600-volt, direct-current machine. An order for three 300-KW. alternating-current generators has also been placed with the Westinghouse company by the Barber Lumber Co., of Boise. These machines will generate current at 440 volts, which will be transformed to 23,000 volts for transmission. The necessary transformers, switchboards and lightning arresters are included in the apparatus to be furnished. The Mammoth Copper Mining Co., of Salt Lake City has placed an order with the Westinghouse company for a large addition to their electrical equipment. A total of nearly 800 HP. in induction motors of different sizes, together with a motor-generator set, transformers, switchboard and three mining locomotives, is included in the order. The motors, two of which have a rated capacity of 200 HP. each, and five of 50 HP. each, will operate on three-phase, 2,000-volt circuits.

THE PELTON WATER WHEEL CO., San Francisco and N. Y., states that the contract for supplying the water wheels and governors for the Kauai Electric Co., Honolulu, H. T., has been placed with it. The installation, when completed, will consist briefly of two 1,200 K. W. Westinghouse alternators direct driven by twin Pelton wheel units, operating at a speed of 375 R. P. M. under 550 ft. effective pressure. The water wheels will be capable of driving generator at a 50 per cent. overload. Hollow forged nickel steel shafts will carry the motor and wheels, these latter being overhung, and the whole revolving element carried in two-water-cooled self-oiling bearings, the latter, as well as the shaft, being furnished by the Pelton company. Combination needle and stream deflecting nozzles will distribute water to each wheel, these nozzles being provided with hydraulic spring and counterbalancing devices. Two 70 K. W. 570 R. P. M. continuous current generators, also direct driven by Pelton wheels, will supply the exciting current. A feature of this generating set being an automatic speed governor for controlling the exciters, should speed of same accelerate 2½% above normal. The whole installation will be of extremely massive and compact construction, the arrangement being similar to the 8,000 HP. units in the plant of the Puget Sound Power Co., near Tacoma, Wash., as it has been found by experience that this design works out to the best possible advantage in the matter of full and fraction load efficiencies and the minimum floor space required.

THE H. W. CALDWELL & SON CO., of Chicago, have found it necessary to erect a new foundry building. In addition to its ordinary requirements in the way of castings, the Caldwell Co. has of late years made a specialty of large pulleys, band wheels, fly wheels, and rope sheaves. They also acquired the entire line of gear patterns and power transmission machinery patterns of the Walker Co., of Cleveland, together with the gear-molding and gear-cutting machinery, and other appliances used by the Walker Co. in connection with its gear business. The building referred to is 115 ft. wide by 184 ft. long. The main bay is 50 ft. wide by 184 ft. long, and the side bays are 32 ft. wide. In addition to the main floor space, there is a gallery 32 ft. × 184 ft. on the east side of the building, while on the west side there is a charging floor, and a storage floor having a weight-sustaining capacity of 750 tons, this floor being the same in area as the east gallery. The side bays are served by small cranes, while in the middle or main aisle is a 20-ton electric travelling crane, having an auxiliary hoist of 5 tons capacity. For the purpose of molding fly wheels and other castings of large diameter there is provided a water-tight pit 10 ft. deep and 50 ft. diameter. The melting capacity is 30 tons per day, and the whole equipment is in proportion. In making this addition to the plant, the H. W. Caldwell & Son Co. expects to be able to add to its line heavier and larger work than has heretofore been practicable. It is expected to install shortly a Niles boring mill large enough to turn wheels 20 ft. diameter and 8 ft. face.

THE PELTON WATER-WHEEL CO., San Francisco, Cal., states that the Animas Canal, Reservoir, Water, Power & Investment Co., of Durango, Col., is now installing an hydro-electric plant. The power house is located about 20 miles from Durango, at a point affording an effective head of 970 ft. available through 2,800 ft. of pipe. The initial installation will consist of two 2,250-KW. General Electric generators, direct-connected to Pelton water-wheels, but provision has been made in the dam and head-works for an ultimate development of 30,000 HP. The present pipe line, one for the two units, is of sheet steel, varying in diameter from 44 ins. at the upper end to 34 ins. at the wheels, and of thicknesses from 3-16-in. to 11-16-in. The pipe is all double butt-strap riveted, with triple riveting at the lower end, and is provided with flanged connections. The water-wheel units, two in number, are of the "double-overhung" construction; each unit consisting of two Pelton wheels, one overhanging each end of the main shaft, with the engine-type generator in the center. The wheels are approximately 8 ft. in diameter, with centers of cast steel, turned all over and fitted with Pelton buckets straddling the periphery and secured to same by means of turned steel bolts driven in reamed holes. The buckets are fine ground and machined inside to obtain the highest possible efficiency. Each wheel unit will have a maximum capacity of 4,000 HP., to provide for an overload on the generator. The complete hydraulic plant, including pipe line and the water-wheels, was manufactured by the P[elton] company, and the electrical equipment [by] the General Electric Co. F. O. Blackwell, [illegible] Wall St., N. Y., is being retained as Con[sultin]g Engineer for the company.

WESTINGHOUSE inter[ests] will occupy all but a small part of the [illegible] and 20th floors of the new Trinity Bldg., [illegible] Broadway, New York, after May 1. The [exec]utive offices of the Westinghouse Electri[c &] Mfg. Co., which have for nearly 20 years b[een in] the Equitable Life Bldg., will be on th[e] [illegible]th floor of the new building, and the ea[stern] sales offices of the Westinghouse Air B[rake] Co. and the Westinghouse Traction Br[ake] Co. will occupy a part of the 20th floor. [The] law offices of Hunt, Hill & Betts, wh[o] have been for several years in the Eq[uitab]le Life Bldg., will be on the 20th floor o[f the] new building, and the remaining part of [the] floor has been sublet to an engineering co[mpa]ny. The U. S. Electric Light Co., which w[as ab]sorbed by the Westinghouse Electric Co. [sho]rtly after the organization of the latter [com]pany, opened offices in the Equitable L[ife] Bldg., in 1878, and the old building has b[een] more or less a Westinghouse headquarter[s in] New York for the past generation, and th[e Ne]w York office of Mr. Geo. Westinghouse. [Th]e New York sales offices of the Westingh[ouse] Electric Co. will remain in the Hanov[er B]ank Bldg. at Pine and Nassau Sts., with[out] changes, and the New York office of th[e] Westinghouse Companies' Publishing Depa[rt]ment, formerly at 10 Bridge St., will be conn[ecte]d with them. The export offices of the ele[ctric c]ompany will continue at the same address, [un]der the management of Maurice Coster, re[cen]tly appointed to succeed F. B. H. Paine, a[nd] the office of Charles S. Powell, the new G[ene]ral Agent of the electric company, will be [co]nnected with the sales and export offices. Mr. Coster and Mr. Powell have arrived f[ro]m Paris and from London to take up their [ne]w duties. Mr. Coster has acted as sales manager of the Société Anonyme Westinghouse since 1890. His Westinghouse connection began in 1888, in Pittsburg, and later he acted as manager of the Chicago office of the electric company. His work for the French Westinghouse company, which manufactures nearly all forms of Westinghouse products—railway appliances, prime movers, and electrical apparatus—involved several branches of engineering and he will act as export manager in New York for the Westinghouse Machine Co., as well as for the electric company. He has for many years been a full member of both the Electrical Engineers and the Mechanical Engineers' Societies. Mr. Powell has returned from Europe after two years and a half as assistant manager of the British Westinghouse Electric & Mfg. Co., Ltd., in which his duties brought him into close touch with all the plans for the electrification of England's traction systems and railroad terminals. His Westinghouse connection began in 1893, and prior to his departure for London in December, 1902, he had acted as manager of the Cleveland office of the electric company. His brother, Mr. Thomas Carr Powell, was recently elected Fifth Vice-Pres. of the Southern Ry.

TRADE PUBLICATIONS.

CONCRETE MIXERS.—Fenn Contracting Co., 1123 Broadway, New York. 9 × 6 ins.; pp. 8.

A new type of paddle concrete mixer is illustrated and described in this catalogue.

STEEL AND IRON.—Scully Steel & Iron Co., Halsted and Fulton Sts., Chicago, Ill. 4½ × 7 ins.; pp. 144.

This catalogue is the March and April stock list of materials and machines carried by this company.

BRIQUETTING PRESS.—American Briquetting Machinery Co., Pittsburg, Pa. Seven loose sheets; 6 × 9½ ins.

These leaflets show photographs and line cuts of coal briquetting machines and plant.

BUILDING BLOCKS.—Noyes F. Palmer Mfg. Co., Brooklyn, N. Y. 4 × 10 ins.; pp. 8.

This catalogue consists of forty-eight "Don'ts," each of which is an instruction as to what not to do in selecting machines for making cement building blocks.

CABINETS AND COVERS.—The H. O. S. Engineering Co., Newark, N. J. 6 × 9 ins.; pp. 8.

This catalogue describes the H. O. S. panel board cabinets of different sizes and styles, tables of dimensions and [illegible]es being given.

COAL CUTTERS.—Sullivan Machinery Co., Railway Exchange, Chicago, Ill. 6 × 9 ins.; pp. 11.

The Sullivan machine for undercutting coal in room and pillar mines is illustrated and described.

ELECTRIC APPLIANCES.—Rolfe Electric Co., Rochester, N. Y. Paper; 3½ × 6¼ ins.; pp. 36; illustrated.

This is a catalogue and price-list of electric bells, fuse boxes, etc. About half of the pamphlet is taken up by electrical laws and rules of practice, together with tables of useful information relative to the subject.

CRIBBING.—United States Portable Cribbing Co., Scranton, Pa. Illustrated folder; 6 × 8½ ins.; pp. 4.

The cribbing illustrated and described in this folder is especially designed for the use of grave diggers. One of the users of this cribbing device, in a letter of recommendation that is printed, says that "it makes my work at the cemetery at time of interment a pleasure."

ROCK DRILLS.—The Gasoline Rock Drill Co., 218 South 4th St., Philadelphia, Pa. Stiff paper; 5 × 8 ins.; pp. 25.

This catalogue illustrates a novel drill operated by gasoline. The drill was illustrated in our issue of April 13, and a description given of its construction.

STEAM SHOVELS.—The Vulcan Iron Works Co., Toledo, O. 4½ × 8½ ins.; pp. 10.

A general description is given of the Vulcan shovel, accompanied by line drawings showing the mechanism and the names of the different parts, also weights and sizes of shovels made.

AIR-LIFT PUMPS.—The W. G. Leale Co., 119 Mission St., San Francisco, Cal. 5½ × 8¼ ins.; pp. 16.

This pamphlet contains reprints of the various technical articles, describing the Starrett air-lift pump, including the article contained in our issue of November 24, 1904. Letters of recommendation are also given.

DUMPING WAGONS AND CARTS.—The Tiffin Wagon Co., Tiffin, O. Illustrated folder; 6 × 9 ins.; pp. 4.

This folder shows the Tiffin-Long dump cart and dumping wagon. The dumping wagon contains four steel buckets that are hung out of center so that they will not dump of themselves. The wagon is a radical departure from other kinds of dumping wagons on the market, and is claimed to be especially adapted for hauling sand, gravel, paving material, etc.

REINFORCED CONCRETE CONSTRUCTION.—L. J. Mensch, Civil Engineer and Contractor, Chicago, U. S. A. Paper; 9 × 12 ins.; pp. 32; illustrated.

The first few pages are devoted to a description of the general use of reinforced concrete construction and the Mensch design of girders and steel reinforcing bars (having circular ribs). The rest of the pamphlet contains views and drawings of a number of buildings constructed on the Mensch system, including the Toledo Masonic Temple recently described in Engineering News. Smokestacks and tanks are also included.

CONVEYORS.—C. W. Hunt Co., West New Brighton, New York. 6¾ × 9¼ ins.; pp. 52.

Photographs and drawings show the general and detailed design of the Hunt noiseless conveyor for handling coal, stone and other bulky materials. The text contains brief explanatory matter and short descriptions of certain plants installed by this company. Several different types of cut-off valves and gates to be used on bins are illustrated, also platform scales, cable railways and coal storage plants.

CENTRIFUGAL PUMPING MACHINERY.—Morris Machine Works, Baldwinsville, N. Y. 9 × 6 ins.; pp. 90.

This catalogue illustrates and describes a great variety of centrifugal pumps, hydraulic dredges and sand pumps. The attention of contractors is called to a special solid steel-lined sand pump which has been developed within the past two or three years. This pump was originally used to handle fine, sharp quartz slimes in gold cyanide plants, and it is said that it will outlast a number of cast-iron pumps or the ordinary steel-lined pump.

STEAM PUMPS.—The Emerson Steam Pump Co., Alexandria, Va. 6¼ × 9½ ins.; pp. 37.

This pump is of a type by itself, and might be entitled a "direct steam displacement pump," since the steam displaces the water, forcing it upward through the delivery pipe. There are no pistons nor plungers nor revolving mechanism used in forcing the water, but the steam is admitted alternately into two vertical cylinders by means of a steam actuated valve. A full description of the design of the pump is given, accompanied by line drawings and photographs. The pump is especially adapted for pumping gritty water in coffer dams, mines, quarries, etc.

For other Proposal Advertisements see pages 35, 36, 37, 38, 39, 40, 41 of Advertisements and Construction News pages 171, 172.

OFFICE OF THE COMMISSIONERS, D. C., Washington, D. C., May 1, 1905.—Sealed proposals will be received at this office until 12 o'clock noon, Saturday, May 20, 1905, for grading and regulating suburban streets and avenues. Blank forms of proposal, specifications, and all necessary information will be furnished at the Office of the Engineer Commissioner, D. C. HENRY B. F. MACFARLAND, HENRY L. WEST, JOHN BIDDLE, Commissioners, D. C. 18-2t

U. S. ENGINEER OFFICE, Grand Rapids, Mich., May 3, 1905.—Sealed proposals for Excavating new channel from Kalamazoo River to Lake Michigan will be received here until 3 P. M., June 2, 1905, and then publicly opened. Information furnished on application. M. B. ADAMS, Col., Engrs. 18-4t

STEEL STAND PIPE.

Montgomery, Alabama.

Sealed proposals in duplicate for constructing a steel stand pipe, endorsed with the title of the work, the name of the bidder and the date of its presentation, will be received by the City Treasurer of the City of Montgomery, Alabama, at his office until seven o'clock P. M., Monday, May 15th, 1905, for constructing a steel stand pipe in accordance with the plans and specifications on file in the office of the City Engineer.

Each bidder must deposit with his bid a certified check upon a responsible bank, payable to the City Treasurer, for the sum of One Thousand ($1,000.00) Dollars as a guarantee of good faith.

A bond in a reliable surety company authorized to do business in the State of Alabama must be given by the successful bidder in the sum of Five Thousand ($5,000.00) Dollars, conditioned for the prompt and faithful performance of all the terms of the contract.

The City Council reserves the right to reject any and all bids.

R. S. WILLIAMS,
18-2t City Treasurer.

WATER-WORKS.

Lumberton, Miss.

Sealed proposals for the construction of a complete system of water-works will be received by the Mayor and Board of Aldermen of the Town of Lumberton, Miss., until 3 P. M., May 17th.

Plans and specifications are now on file in the office of P. E. Williams, Town Clerk, and Richard C. Huston, Consulting Engineer, 918 Hibernia Bank Bldg., New Orleans, and Laurel, Miss.

Bids will be received under the rules of the "American Public Works Association" as far as they can be applied.

Certified check for 10% of amount of bid will be required.

H. A. CAMP, Mayor.
P. E. WILLIAMS, Town Clerk.
R. C. HUSTON, Consulting Engineer. 18-2t

DEPARTMENT OF THE INTERIOR, United States Geological Survey, Washington, D. C., May 1, 1905.—Sealed proposals will be received at the office of the United States Reclamation Service, 1108 Braly Building, Los Angeles, Cal., until 2 o'clock p. m., Monday, June 5, 1905, for the construction of the Laguna Dam and Sluiceways, involving the excavation of about 282,000 cubic yards of earth, excavation of about 305,000 cubic yards of solid rock, placing of about 305,000 cubic yards of solid rock in the dam and masonry core walls, building of about 27,150 cubic yards of concrete, laying of about 80,000 square yards of paving, and furnishing and driving of about 53,000 linear feet of sheetpiling, for the diversion of a part of the Colorado River about 10 miles northeast of Yuma, Ariz. BIDS WILL BE RECEIVED FOR THE ENTIRE WORK OR ANY INTEGRAL PART THEREOF. Specifications, form of proposal, and particulars may be obtained by application to the Chief Engineer, U. S. Reclamation Service, Washington, D. C.; to J. B. Lippincott, Supervising Engineer, U. S. Reclamation Service, 1108 Braly Building, Los Angeles, Cal., or to Homer Hamlin, Engineer, U. S. Reclamation Service, Yuma, Ariz., at whose offices the plans may be inspected. Each bid must be accompanied by a certified check for $10,000, payable to the order of the Secretary of the Interior, as a guaranty that the bidder will, if successful, promptly execute a satisfactory contract and furnish bond in the sum of 20 per cent. of the contract price for the faithful performance of the work. The right is reserved to reject any or all bids, to accept one part and reject the other, and to waive technical defects, as the interests of the service may require. Proposals must be marked "Proposals Laguna Dam, Yuma Project, California." Bidders are invited to be present when bids are opened. E. A. HITCHCOCK, Secretary. 18-4t

PROPOSALS FOR STEAM PUMPS, PIPE, PIPE FITTINGS, HYDRANTS, WATER METERS, FIRE EXTINGUISHERS, BOLT CUTTERS, HOSE REELS, LINEN HOSE, ETC.—Office Isthmian Canal Commission, Washington, D. C., May 4, 1905.—Sealed proposals, in triplicate, will be received at the office of the Purchasing Agent, Isthmian Canal Commission, Washington, D. C., until 10.30 A. M., May 27, 1905, at which time they will be opened in public, for furnishing above mentioned supplies. Blanks and full information may be obtained from this office, or offices of Asst. Purchasing Agent, 24 State St., N. Y. City, or Asst. Purchasing Agent, at Custom House, New Orleans, La., and at Chamber of Commerce, San Francisco, Cal. H. J. GALLAGHER, Major, U. S. A., Purchasing Agent. 18-4t

DEPARTMENT OF COMMERCE AND LABOR, Light-House Establishment.—Sealed proposals will be received at the office of the Light-House Engineer, Philadelphia, Pa., until 12 o'clock M., Wednesday, May 31, 1905, and then opened, for the construction of a light-house, oil-house, boathouse, etc., at Reedy Island Range Front Light-Station, Del., in accordance with specifications, copies of which, with blank proposals and other information, may be had upon application to MAJOR J. C. SANFORD, Corps of Engineers, U. S. A., Engineer. 18-2t

DEPARTMENT OF THE INTERIOR, United States Geological Survey, Reclamation Service, Washington, D. C., April 29, 1905.—Sealed proposals will be received at the office of the engineer, United States Reclamation Service, Billings, Montana, until 2 o'clock p. m., June 28, 1905, and thereafter opened, for the construction of pumping station, concrete culverts, siphons, drops, etc., and furnishing two steel highway bridges, four steel sluice gates with stands, and 120,000 pounds steel bars for reinforcing concrete. Total amount of concrete about 1,600 cubic yards. Above work to be done along line of canal, east from Huntley, Montana, in connection with the Huntley project. Specifications, form of proposal, and plans may be obtained at the office of the Chief Engineer of the Reclamation Service, Washington, D. C., or from R. S. Stockton, Engineer, Billings, Montana. Each bid must be accompanied by a certified check for $1,000, payable to the order of the Secretary of the Interior, as a guaranty that the bidder will, if successful, promptly execute a satisfactory contract and furnish bond in the sum of $10,000 for the faithful performance of the work. It must also be accompanied by the guaranty of responsible sureties to furnish bond as required if the bid be accepted. The right is reserved to reject any or all bids, to accept one part and reject the other, and to waive technical defects, as the interests of the service may require. Bidders are invited to be present. Proposals must be marked "Proposal for building structures and furnishing material, Huntley project, Montana." E. A. HITCHCOCK, Secretary. 18-6t

DEPARTMENT OF THE INTERIOR, United States Geological Survey, Reclamation Service, Washington, D. C., April 27, 1905.—Sealed proposals will be received until 2 o'clock p. m., June 1, 1905, and thereafter opened, at the office of the Engineer, U. S. Reclamation Service, Glendive, Mont., for installing, in connection with the Fort Buford reclamation project, a telephone system having four telephone stations and about 70 miles of pole line, beginning opposite Glendive, Mont., on the west side of the Yellowstone River, extending northward down the Yellowstone Valley, generally following the county road and ending near the junction of the Yellowstone and Missouri rivers at a point nearly opposite Buford, N. Dak., on the Great Northern Railroad. Specifications, forms of proposal and particulars may be obtained by applying to the Chief Engineer of the Reclamation Service, Washington, D. C., or to F. E. Weymouth, Engineer, Glendive, Mont. Each bid must be accompanied by a certified check for $1,000, payable to the order of the Secretary of the Interior, as a guaranty that the bidder will, if successful, promptly execute a satisfactory contract and furnish bond in the sum of 20 per cent. of the contract price for the faithful performance of the work. Each bid must also be accompanied by the guaranty of responsible sureties to furnish bond, as required, if the contract is awarded to the bidder. The right is reserved to reject any and all bids and to waive technical defects if the interest of the Government requires it. Bidders are invited to be present at the opening of the proposals. Proposals must be marked "Proposals for Telephone System, Fort Buford Project, Montana and North Dakota." E. A. HITCHCOCK, Secretary. 18-4t

DEPARTMENT OF THE INTERIOR, United States Geological Survey, Reclamation Service, Washington, D. C., April 27, 1905.—Sealed proposals will be received at the office of the Supervising Engineer, United States Reclamation Service, Chamber of Commerce Building, Denver, Colo., until 2 o'clock, p. m., Thursday, June 15, 1905, and thereafter opened, for the construction of the Pathfinder dam and auxiliary works, at a point about 50 miles southwest of Casper, Wyo., to impound the flow of North Platte River. Plans, specifications, and forms of proposal may be obtained by application to the Chief Engineer of the Reclamation Service, U. S. Geological Survey, Washington, D. C., or to the Supervising Engineer of the Reclamation Service, at Denver, Colo. Each bid must be accompanied by a certified check for $5,000, payable to the order of the Secretary of the Interior, as a guaranty that the bidder will, if successful, promptly execute a satisfactory contract and furnish bond in the sum of $50,000 for the faithful performance of the work. Each bid must also be accompanied by the guaranty of responsible sureties to furnish bond as required, if bid be accepted. The right is reserved to reject any and all bids, to accept one part and reject the other, and to waive technical defects, as the interests of the service may require. Bidders are invited to be present when bids are opened. Proposals must be marked "Proposal for Pathfinder dam, Wyoming." E. A. HITCHCOCK, Secretary. 18-4t

PROPOSALS FOR MISCELLANEOUS SUPPLIES.—Office Isthmian Canal Commission, Washington, D. C., May 1st, 1905.—Sealed proposals, in triplicate, will be received at the office of the Purchasing Agent, Isthmian Canal Commission, Washington, D. C., until 10.30 A. M., May 24, 1905, at which time they will be opened in public, for furnishing pipe, pipe fittings, buckets, screws, tools, piston, sheet, rubber and asbestos packing, cotton waste, soap, candles, pig lead, tin, solder, copper, zinc, bar copper, bar iron, wire, brass rod, bath brick, ground glass, metals, etc. Blanks and full information may be obtained from this office, or offices of Asst. Purchasing Agent, 24 State St., N. Y. City, or Asst. Purchasing Agent, at Custom House, New Orleans, La. H. J. GALLAGHER, Major, U. S. A., Purchasing Agent. 18-3t

U. S. ENGINEER OFFICE, Nashville, Tenn., April 29, 1905.—Sealed proposals for construction, delivery and erection of two Steel Lock Gates, and construction and delivery of Filling Valves, etc., at Lock No. 2, Cumberland River, will be received here until 11 A. M., standard time, May 29, 1905, and then publicly opened. Information furnished on application. H. C. NEWCOMER, Major, Engrs. 18-4t

DEPARTMENT OF THE INTERIOR, United States Geological Survey, Reclamation Service, Washington, D. C., April 29, 1905.—Sealed proposals will be received at the office of the Engineer, U. S. Reclamation Service, Billings, Mont., until 2 o'clock p. m., June 28, 1905, and thereafter opened, for the construction of about 30 miles of canal, involving about 700,000 cubic yards of earthwork, some rock work and three tunnels, with concrete lining for rock cuts and tunnels, the same being a portion of a system for the diversion of about 400 cubic feet of water per second from the Yellowstone River at a point about 10 miles east of Billings, and its conveyance to irrigable lands along the south side of said river. Specifications, forms of proposals and plans may be obtained at the office of the Chief Engineer, U. S. Reclamation Service, Washington, D. C., or from R. S. Stockton, Engineer, Billings, Mont. Each bid must be accompanied by a certified check for $1,000, payable to the order of the Secretary of the Interior, as a guaranty that the bidder will, if successful, promptly execute a satisfactory contract and furnish bond as required. It must also be accompanied by the guaranty of responsible sureties to furnish bond as required, if the bid be accepted. The right is reserved to reject any or all bids, to accept one part and reject the other, and to waive technical defects, as the interests of the service may require. Bidders are invited to be present. Proposals must be marked "Proposal for the construction of canal, Huntley project, Montana." E. A. HITCHCOCK, Secretary. 18-6t

CONSTRUCTING QUARTERMASTER'S OFFICE, Vancouver Barracks, Wash., April 27, 1905.—Sealed proposals, in triplicate, will be received at this office, until 11 a. m., May 27, 1905, and then opened in the presence of attending bidders, for the construction, including plumbing, heating and electric wiring of an administration building, band barracks, granary, hay shed, wagon shed, Q. M. shop, Q. M. storehouse and bakery at Vancouver Barracks, Wash. Information will be furnished on application to this office. Plans may also be seen at the office of the Depot Quartermaster, Seattle, Washington. The United States reserves the right to accept or reject any or all bids or any part thereof. Envelopes containing proposals should be indorsed: "Proposals for buildings," and addressed to the Constructing Quartermaster, Vancouver Barracks, Wash. 18-3t

CONSTRUCTING QUARTERMASTER'S OFFICE, Oswego, N. Y., April 28, 1905.—Sealed proposals in triplicate, for furnishing the necessary labor and material and constructing Roads and Walks at Fort Ontario, N. Y., will be received at this office until 10.00 A. M., May 27, 1905, and then publicly opened. Plans, Specifications and General Instructions to Bidders may be obtained at this office. Blanks for proposals, and all necessary information will be furnished upon application. A guarantee in the amount of 10% must accompany proposal. Envelopes containing proposals should be marked "Proposals for Roads and Walks," and addressed to W. M. COULLING, Quartermaster, U. S. A. 18-4t

U. S. ENGINEER OFFICE, Buffalo, N. Y., April 29, 1905.—Sealed proposals for construction of stone superstructure and sea slope, and for stone riprap, on South Harbor section of Buffalo breakwater, will be received here until 11 A. M., May 29, 1905, and then opened. Information furnished on application. H. M. ADAMS, Lieut.-Col., Engrs. 18-4t

U. S. ENGINEER OFFICE, 537 Congress St., Portland, Me., April 28, 1905.—Sealed proposals for dredging in Damariscotta River, New Harbor and Bagaduce River, Me., will be received here until 12 M., May 29, 1905, and then publicly opened. Information furnished on application. W. M. BLACK, Maj., Engrs. 18-4t

U. S. ENGINEER OFFICE, 1000 22d St., N. W., Washington, D. C., May 1, 1905.—Sealed proposals for furnishing and installing complete electric lighting plant for Washington Filtration Plant, Washington, D. C., will be received here until 12 M., May 29, 1905, and then publicly opened. Information on application. SMITH S. LEACH, Lt.-Col., Engrs. 18-3t

U. S. ENGINEER OFFICE, Mobile, Ala., April 29, 1905.—Sealed proposals for dredging in Pascagoula River and Mississippi Sound, will be received at this office until 12 noon, May 31, 1905, and then publicly opened. Information furnished on application. W. E. CRAIGHILL, Maj., Corps of Engrs. 18-4t

U. S. ENGINEER OFFICE, New London, Conn., May 1, 1905.—Sealed proposals in triplicate for dredging about 55,000 cubic yards at Milford harbor, Conn., will be received here until 12 o'clock noon, May 29, 1905, and then publicly opened. Information furnished on application. C. F. POWELL, Lt.-Col., Engrs. 18-3t

U. S. ENGINEER OFFICE, Nashville, Tenn., May 4, 1905.—Sealed proposals for furnishing and delivering about 453,406 feet B. M., long-leaf yellow pine timber will be received here until 11 A. M., standard time, June 5, 1905, and then publicly opened. Information furnished on application. H. C. NEWCOMER, Major, Engrs. 18-4t

DEPARTMENT OF COMMERCE AND LABOR, Light-House Establishment.—Sealed proposals will be received at the office of the Light-House Engineer, Tompkinsville, N. Y., until 1 o'clock p. m., May 29, 1905, and then opened, for furnishing the material and labor necessary for the erection and completion of the Lamp Shop, Light-House Depot, Tompkinsville, N. Y., in accordance with specifications, copies of which, with blank proposals and other information, may be had upon application to LIEUT.-COL. WM. T. ROSSELL, Corps of Engineers, U. S. A., Engineer. 18-2t

SEWERS.

Lestershire, N. Y.

Sealed proposals will be received by the Board of Trustees of the village of Lestershire, N. Y., until 8 o'clock P. M. on the 12th day of May, 1905, for the construction of about three miles of pipe sewers with their manholes, lampholes and other accessories, including all materials, tools and labor necessary to complete the same.

The estimated maximum cost of the construction of such sewers is the sum of $40,000, and the estimated minimum cost thereof is the sum of $24,000.

Plans and profiles may be seen and specifications, obtained at the office of the clerk of the Board of Trustees in the village of Lestershire, N. Y., and plans and specifications seen at the office of Knight and Hopkins, Engineers, Rome, N. Y.

Bids will be received for the whole work only.

The Board of Trustees reserves and has the right to accept or reject any proposal, to contract with other than the lowest bidder, or to reject all bids and advertise again.

A bond satisfactory to the Board of Trustees in amount and sureties, and in a sum equal to 40 per cent. of the contract price, will be required of the bidder to whom the contract may be awarded. The sureties shall be residents of the State of New York, or a surety company organized under the laws of and doing business in the State of New York—the latter preferred. Each bidder will be required to state in his proposal the names and addresses of his bondsmen.

A certified check upon a State or National bank to the amount of $1,000, drawn to the order of the Treasurer of the village of Lestershire, N. Y., must be deposited by each bidder as a guarantee that in case the contract is awarded him he will, within seven days after notification of award, execute said contract.

Proposals must be on forms submitted by the Board of Trustees, and must be sealed and addressed or delivered to J. E. Hill, Clerk of the village of Lestershire, N. Y., and marked on the outside of the envelope enclosing them, "Proposals for Lestershire Sewers."

Dated ———, 1905.

J. F. CHAMBERS, President.

J. E. HILL, Village Clerk. 18-2t

COURT HOUSE.

Plaquemine, La.

The Board of Police Jurors of Iberville Parish will meet in Plaquemine, La., on the 10th day of June, 1905, at which time they will receive sealed proposals, up to 12 o'clock noon, for the erection of a court-house to be built in Plaquemine, in accordance with plans and specifications prepared by Andrew J. Bryan, Architect, 706 Hennen Building, New Orleans, La.

Each contractor will submit with his proposal a certified check made payable to the order of Andrew H. Gay, President of the Board of Police Jurors, Plaquemine, La., in the amount of Five Hundred Dollars ($500). Bids unaccompanied by certified check will not be considered.

All parties desiring to submit proposal for the above work can obtain proposal sheets upon which to make out their proposal, as well as plans and specifications, from the Architect or Clerk of the Police Jury.

For further information address Andrew H. Gay, President Board of Police Jurors, Plaquemine, La.

The right is reserved by the Board to reject any or all bids. 18-1t

MAIN SEWER.

NOTICE FOR BIDS.

North Platte, Nebraska.

Notice is hereby given that sealed bids will be received at the office of the city clerk of North Platte, Neb., up to 5 o'clock p. m., May 25th, 1905, for the construction of the main sewers in said city according to plans and specifications now on file in the office of the city clerk of said city, also in the office of Andrew Rosewater, sanitary engineer, at Omaha, Neb.

Approximate estimate of cost of main sewers as per report of Special Engineer Andrew Rosewater is $30,000.00.

Local labor to be employed as far as practicable.

Certified check on local bank of 2 per cent. of amount bid will be required to insure entering into contract.

Satisfactory bond to be given when contract is signed.

Mayor and Council reserve the right to reject any or all bids.

By order of the City Council.

WILLIAN YOST, City Clerk.

18-3t

FOUNDATIONS FOR AIR COMPRESSOR, PUMPING ENGINE AND CHANGES IN AND TO THE PUMPING STATION BUILDING.

Montgomery, Alabama.

Sealed proposals in duplicate for this work, endorsed with the title of the work, the name of the bidder and the date of its presentation, will be received by the City Treasurer of the City of Montgomery, Alabama, at his office until seven o'clock P. M., Monday, May 15th, 1905, for constructing foundations for Air Compressor, Pumping Engine and making changes in and to the Pumping Station Building, in accordance with plans and specifications on file in the office of the City Engineer.

Each bidder must deposit with his bid a certified check upon a responsible bank, payable to the City Treasurer, for the sum of Five Hundred ($500.00) Dollars as a guarantee of good faith.

A bond in a reliable surety company authorized to do business in the State of Alabama must be given by the successful bidder in the sum of Two Thousand ($2,000.00) Dollars, conditioned for the prompt and faithful performance of all the terms of the contract.

The City Council reserves the right to reject any and all bids.

R. S. WILLIAMS, City Treasurer.

18-2t

SEWERS, GRADING AND PAVING.

Freeport, Pa.

Sealed proposals will be received by the Burgess and Council of the Borough of Freeport, Pa., for the Sewering, Grading, Curbing and Paving of High, Buffalo, Franklin and Third Streets in said Borough.

The following are the approximate amounts of the work:

900 ft. 20", 1,250 ft. 18", 1,000 ft. 15", 1,500 ft. 6" Sewer.
12 Manholes, 1 Lamp Hole, 15 Inlets.
2,300 Cu. Yds. of Grading.
7,700 Ft. Curbing.
9,000 Sq. Yds. of Paving.

Bids will be received until 12 o'clock noon, May 15, 1905, and shall be presented to the Street Committee or at office of Engineer, Freeport, Pa.

Council reserves the right to reject any or all bids.

Plans and specifications can be seen at the office of G. B. Findley, Borough Engineer, Freeport, Pa. 18-2t

WATER-WORKS.

New Madrid, Missouri, April 25, 1905.

Bids will be received by the City of New Madrid, Mo., until seven o'clock p. m. of May 17th, 1905, for furnishing and constructing a system of Water-Works or parts thereof, in accordance with the Plans and Specifications of the City.

Bids must be sealed and addressed to the City Clerk, New Madrid, Mo.

Said Sealed Bids must have endorsed on face "Proposals for Water-Works."

Certified check must accompany bids in the sum of three per cent. of the amount bid. Minimum check, $50.

Plans and Specifications are on file and may be seen at the City Hall, at New Madrid, Mo., and at the office of Owen Ford, Consulting and Supervising Engineer, Security Building, St. Louis, Mo.

The City reserves the right to reject any and all bids.

W. H. COPELAND,

18-2t City Clerk.

PUBLIC WHARVES AND DOCKS—PIER 4.

Department of Public Improvements, Sub-Department: Harbor Board, Baltimore, Md.

Proposals for the construction of a stone and timber bulkhead to inclose and form Pier No. 4 will be received until 11 o'clock forenoon of May 24, 1905.

Proposals must be addressed to the Board of Awards and sent to the City Register, City Hall, accompanied by a certified check for 10 per cent. of the proposal, payable to the Mayor and City Council of Baltimore. The right is reserved to reject any or all proposals. Plans and specifications can be had at the Harbor Board Office on payment of $5, to be refunded to bidders.

N. H. HUTTON, Harbor Engineer.

Approved:

E. CLAY TIMANUS, 18-3t
President Board of Awards.

Plans and specifications are on file at office Engineering News, 220 Broadway, New York.

U. S. ENGINEER OFFICE, Galveston, Tex., May 1, 1905.—Sealed proposals, in triplicate, for suction dredge, will be received here until 12 M., May 31, 1905, and then publicly opened. Information furnished on application. EDGAR JADWIN, Capt., Engrs. 18-4t

CAST IRON WATER PIPE.

Cleveland, Ohio, May 1, 1905.

Sealed proposals will be received at the office of the Secretary of the Board of Public Service, No. 105 City Hall, until 12.00 o'clock M., May 16, 1905, for furnishing and delivering such cast iron water pipe and special castings from 3 inches to 48 inches, inclusive, as may be required during the year 1905, by the Water Works Department of the Board of Public Service of the City of Cleveland, Ohio.

There will be required approximately 1,170 tons of 3-inch to 12-inch pipe, 150 tons of 16-inch to 48-inch pipe, 15 tons miscellaneous and special castings 3-inch to 12-inch, and 90 tons of special castings 16-inch to 48-inch.

Specifications may be seen and blank proposals can be obtained at the office of the Superintendent of the Water-Works Department.

Each proposal must contain the full name of the party or parties making the same, and all persons interested therein, and must be accompanied by a certified check for $5,000, payable to the Board of Public Service, on a solvent bank in this City, as surety that if the proposal be accepted, a contract will be entered into.

No proposal will be entertained unless made on the blanks furnished by the Superintendent of the Water Works Department and delivered at the office of the Secretary of the Board of Public Service, No. 105 City Hall, previous to 12.00 o'clock M., on the day specified.

The City reserves the right to reject any and all bids.

THE BOARD OF PUBLIC SERVICE,
By W. J. SPRINGBORN,
President.

A. R. CALLOW, 18-1t
Secretary the Board of Public Service.

SITUATIONS OPEN

WANTED.—Experienced transitman for work located about 30 miles from New York; must be a fair draftsman; state age, experience and salary expected. Address "S. A. 18," Engineering News, New York. 18-1t

CHECKERS AND DRAFTSMEN WANTED on structural steel in connection with New York City building work; state age, nationality, previous experience and salary expected. Address "L. A. 18," Engineering News, New York. 18-1t

LARGE ARCHITECTURAL FIRM, New York City, wants first-class designer structural iron; permanent position; salary, $30.00 to $35.00. Address "P. A. 18," Engineering News, New York. 18-1t

LARGE CONCERN building excavating and railway machinery, wants to correspond with first-class mechanical draftsman, with view to filling future vacancies as they occur. Wants men now employed. Give full experience and reason for changing. Shop experience great advantage. All letters acknowledged and held confidential. Address "I. 18," Engineering News, New York. 18-2t

WANTED.—Several structural draftsmen familiar with office building work. Apply HAY FOUNDRY & IRON WORKS, Newark, N. J. 18-1t

WANTED.—Estimators and draftsmen on structural steel work for buildings, etc. Young but experienced men and graduate engineers preferred. State which position is desired and give full particulars regarding age, education, experience, salary expected, with names and addresses of references. GEO. E. THACKRAY, Structural Engineer, Cambria Steel Company, Johnstown, Pa. 18-1t

STRUCTURAL DRAFTSMEN WANTED.—Graduate engineers, with three or more years' experience in bridge company or railroad bridge department drafting rooms. Must be good draftsmen and letterers. Salary, $75 to $100 per month. Opportunity for advancement. Address "S. 18," Engineering News, New York. 18-1t

WANTED.—Three draftsmen for masonry and general railroad work; location, large R. R. company, New York City; only first-class men need apply. Address "B. B. 17," Engineering News, New York. 17-2t

WANTED at once, three draftsmen with one year or more experience in detailing bridge and building work. In answering give experience in detail, references and salary expected. Address AMERICAN BRIDGE CO., Detroit Plant, Detroit, Mich. 18-1t

WANTED.—Assistant in consulting engineer's office capable of supervising construction work on power plants, electric railways, transmission lines, etc. Address, giving full particulars as to age, education, experience, salary expected and names of previous employer, "F. B. 18," Engineering News, New York. 18-1t

WANTED.—Two experienced architectural draftsmen for elevator works near New York. Address "G. B. 18," Engineering News, New York. 18-1t

Mail Copy for Proposal Advertisements

and "TELEGRAPH US THE REST" *AT OUR EXPENSE*

OFTEN COPY AND ORDERS for proposal advertisements, to be inserted in ENGINEERING NEWS, arrive too late for insertion in the current week's issue, the last pages of which go to press WEDNESDAY NOON. To avoid the danger of advertisements being received too late, and having to wait a week for insertion, we suggest that the official in charge of sending instructions, mail us copy for the advertisement in advance of the board meeting, if possible. We shall hold this copy for further instructions, which may be telegraphed us at our expense, immediately after the meeting. The copy of the advertisement sent us should be left blank as to the hour and date when bids are to be opened, the amount of the security and check, and other items that cannot be determined in advance.

THE LAST PROPOSAL PAGES go to press Wednesday morning, so that copy for advertisements, or telegrams, received Wednesday noon will have immediate attention. Letters mailed from points east of the Mississippi River on Monday, will be received at this office on Wednesday. Mail from points beyond should be posted Thursday, Friday, or Saturday, according to the distance. If in doubt that copy will reach us in time, send us a draft of the advertisement and "TELEGRAPH US THE REST." Special delivery stamps can also be used to good advantage. Follow your telegram with definite instructions by letter.

ADVERTISE FOR BIDS IN ENGINEERING NEWS AS FAR IN ADVANCE as possible, and continue the advertisement until the day of opening bids. A number of municipalities do this with satisfactory results. Plans and specifications may be filed at our offices in New York and Chicago (Monadnock Block) for the benefit of intending bidders, and an addition will be made to your advertisement, stating this fact, FREE OF CHARGE to you.

COPY FOR OTHER ADVERTISEMENTS, often used by city, county and state officials, such as "Situations Open" (3 cents a word) and "For Sale" ($1.50 an inch) advertisements should reach us on Tuesday to insure insertion in the current week's issue. These small cards will always bring good results.

Address Letters and Telegrams to

ENGINEERING NEWS

220 Broadway, New York